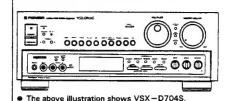


# Service Manual



ORDER NO. RRV1237

**AUDIO/VIDEO STEREO RECEIVER** 

# VSX-D704S vsx-79

#### THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Tuna	Model		Power Requirement	The voltage can be converted by the	
Туре	VSX-D704S	VSX-79	- Fower Requirement	following method.	
KU	0		AC120V		
КС	0		AC120V		
SD	0		AC110V/120-127V/220V/240V	With the voltage selector	
KU/CA		0	AC120V		

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#### 1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

#### NOTICE

#### (FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

#### REMARQUE

#### (POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

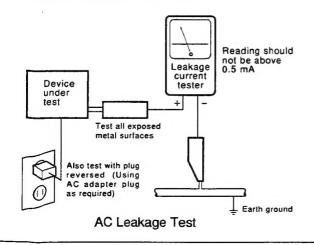
#### (FOR USA MODEL ONLY) -

#### 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

#### LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

#### 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual

Electrical components having such features are identified by marking with a  $\underline{\Lambda}$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

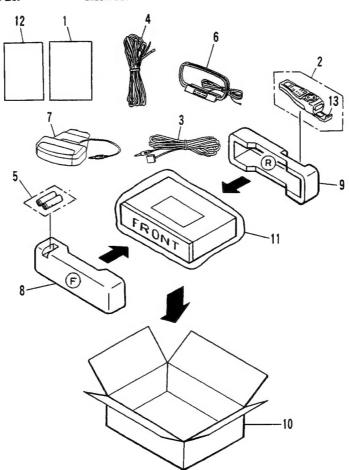
## 2. EXPLODED VIEWS, PACKING AND PARTS LIST

#### NOTES .

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "©" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

## 2.1 PACKING (for VSX-D704S/KU)

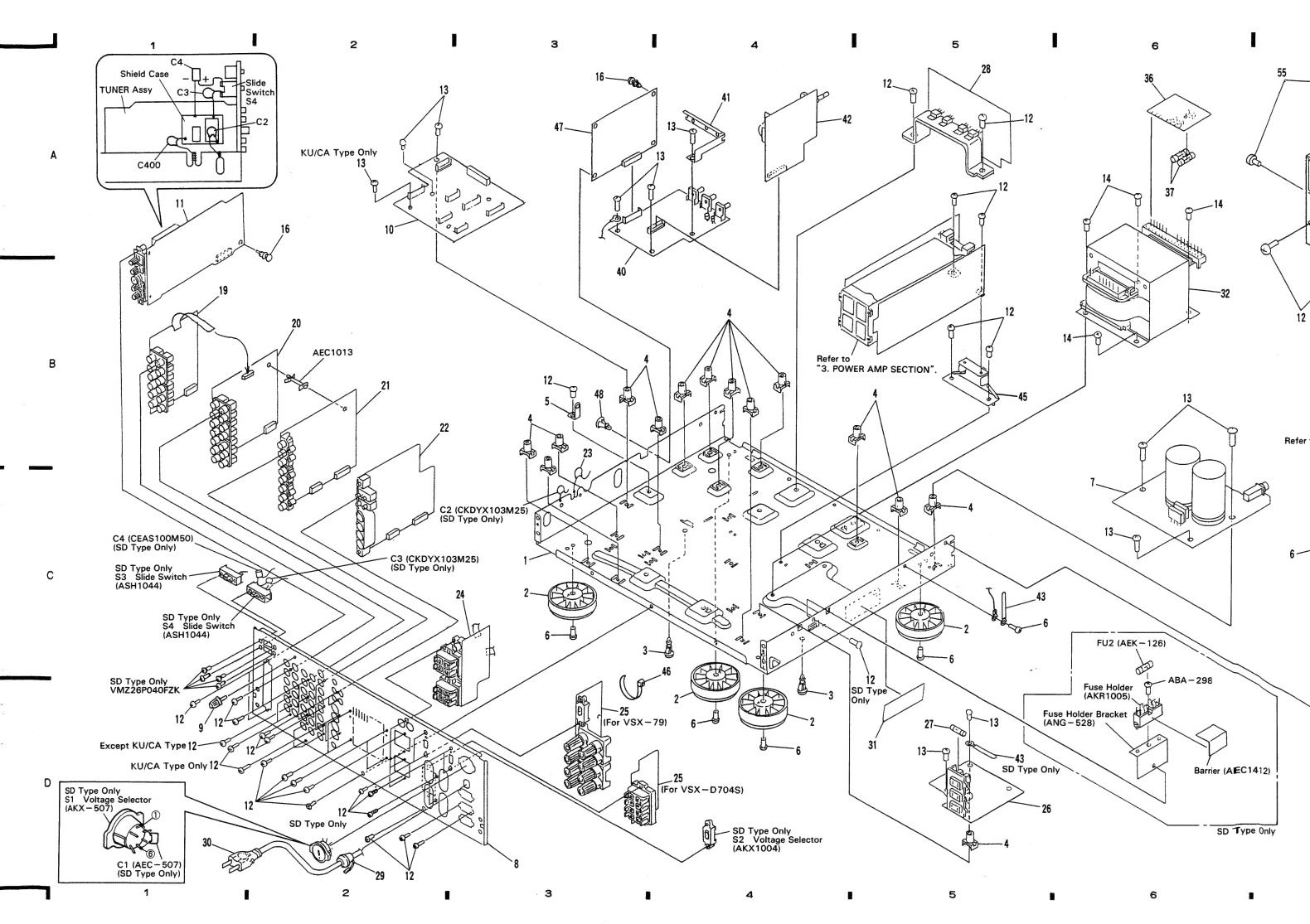
Mark	No.	Description	Parts No.
	1	OPERATING INSTRUCTIONS	ARB7035
	2	(English) REMOTE CONTROL UNIT (CU – VSX097)	AXD7055
	3	MINI REPEATER	ADF1002
	4	FM ANTENNA	ADH1004
NSP	5	BATTERY (R6P, AA)	AEX-010
	6	LOOP ANTENNA ASSY	ATB1005
	7	MAIN REPEATER	AXF1079
	8	FRONT PAD	AHA7056
	9	REAR PAD	AHA7057
	10	PACKING CASE	AHD7138
	11	PACKING SHEET	AHG1021
	12	ATTENTION SHEET (READ BEFORE USING) (English/French/Spanish/Chinese)	ARM7007
	13	BATTERY COVER	AZN7187

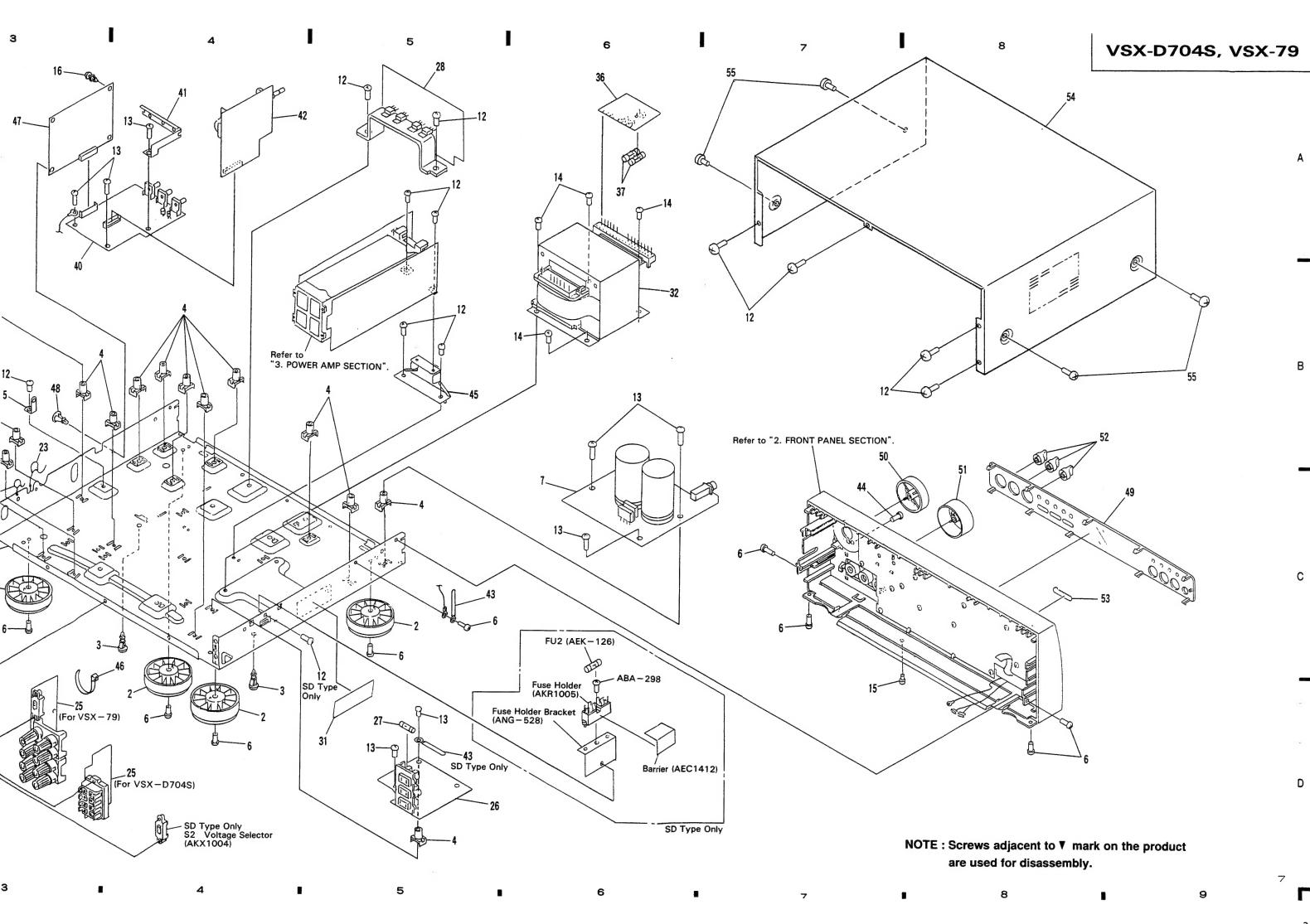


## 2.2 EXPLODED VIEWS (for VSX-D704S/KU)

### 1. EXTERIOR

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	1	CHASSIS	ANA7018		51	VOLUME KNOB	AAB2225
	2	FOOT ASSY	AMR2414		52	BALANCE KNOB	AAB2226
NSP	3	PCB HOLDER	AEC1097		53	BADGE	AAM1058
NSP	4	PCB MOLD	AMR1525		54	BONNET	ANE7067
1101	5	L TYPE HOLDER	ANG1903		55	SCREW	FBT40P060FZK
			11.0100		00	SOLET	1 D 1 401 0001 2 K
	6	SCREW	ABA1009				
	7	POWER SUPPLY ASSY	AWZ7619				
	8	REAR PANEL	ANC7194				
	9	TERMINAL SCREW	AKE-031				
	10	CONNECTION ASSY	AWZ7630				
NSP	11	TUNER ASSY	AWE1140				
	12	SCREW	ABA – 298				
	13	SCREW	ABA1018				
	14	SCREW	ABA1053				
	15	SCREW	BPZ30P060FZK				
	16	RIVET	AMR1066				
	17						
	18						
	19	AUDIO FUNCTION ASSY	AWZ7634				
	20	A/V FUNCTION ASSY	AWZ7636				
	21	VIDEO FUNCTION ASSY	AWZ7638				
	22	S+SR, MR, IR ASSY	AWZ7645				
	23	CAPACITOR (C400)	CKDYF102Z50				
NSP	24	R.C SP. ASSY	AWZ7626				
NSP	25	FRONT SP. ASSY	AWZ7623				
			111721000				
	26	PRIM ASSY	AWZ7620				
<u>^</u>	27	FUSE (10A/125V, FU1)	AEK1035				
_	28	REG. ASSY	AWZ7617				
$\triangle$	29	STRAIN RELIEF	AEP-113				
$\triangle$	30	AC POWER CORD	ADG1146				
	31	65 LABEL	ORW1069				
$\Delta$	32	POWER TRANSFORMER	ATS7058				
	33	(AC120V, T1)					
	34						
	35						
	35						
NSP	36	TRANS ASSY	AWZ7622				
<u>^</u>	37	FUSE (3.15A/125V, FU3, FU4)	AEK-124				
	38						
	39						
	40	TONE ASSY	AWZ7642				
	41	VOLUME HOLDER	ANG1902				
	42	VOLUME ASSY	AWZ7616				
	43	BINDER	AEP-215				
	44	SCREW	VMZ30P060FCU				
NSP	45	MOLD HOLDER	ANG7021				
	46	BINDER	AEC-093				
	47	DOL. PRO. MOD. 1020	AXQ1022				
	48	PCB HOLDER	AEC1534				
	<b>4</b> 9	DISPLAY PANEL	AAK7147				
	50	JOG DIAL	AAB2224				
	50	JOG DIAL	MADGGGT				





## 2. FRONT PANEL SECTION

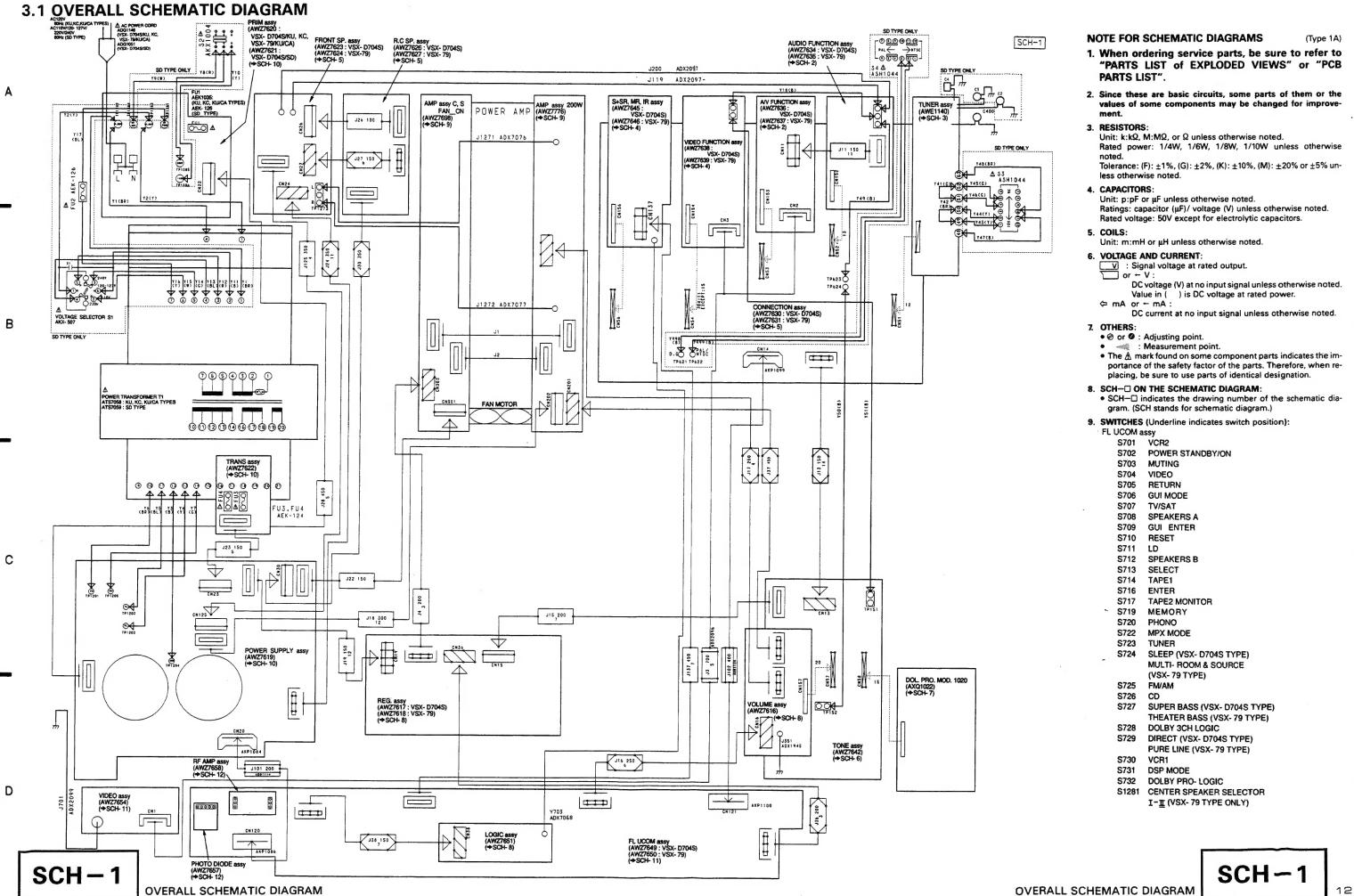
## 3. POWER AMP SECTION

	Vlark	No.	Description	Parts No.	Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.		
A		2 3	CENTER PANEL GUI MODE BUTTON TX BUTTON FRONT PANEL	AAK7152 AAD4048 AAD4050 AMB7209	NSP NSP NSP	16 17 18 19 20	RING WIRE CRIP VIDEO ASSY HOUSING 5P (J3) SCREW	AAK2586 AEC1535 AWZ7654 ADX2096 BPZ26P080FMC	NSP	1 2 3 4 5	MOLD A RADIATOR MOLD B AMP ASSY C, S FAN_CN AMP ASSY 200W	AMR7041 ANH7013 AMR7042 AWZ7698 AWZ7776	,	
		8 9	LED LENS ASC BUTTON MUTE BUTTON FUNCTION BUTTON	PNW2019 AAD4049 AAD4047 AAD2470	·	21 22 23 24 25	FL UCOM ASSY FLEXIBLE FLAT CABLE (J1) FLEXIBLE FLAT CABLE (J2) ESCUTCHEON LOGIC ASSY		<b>A A A A A</b>	6 7 8 9 10	TRANSISTOR (Q209) TRANSISTOR (Q23) THERMISTOR (TH1) TRANSISTOR (Q3) TRANSISTOR (Q210)	2SC1740S 2SA1837 150-203-73002 2SA1302 2SC1740S		25-014
	NSP		IR FILTER POWER BUTTON SHEET BUTTON B	AAK2575 AAD4052 AED1160 AAD2472	NSP	26	PCB SPACER	BEC1049	<u>∧</u> <u>∧</u> <u>∧</u>	11 12 13 14 15	TRANSISTOR (Q21) TRANSISTOR (Q1) FAN MOTOR SCREW TRANSISTOR (Q309)	2SC4793 2SC3281 AXM7005 ABA – 283 2SC1740S		23
В			26 ~	26 20	25				<b>△</b> <b>△</b> <b>△</b>	16 17 18 19 20	TRANSISTOR (Q24) TRANSISTOR (Q33) TRANSISTOR (Q34) SCREW TRANSISTOR (Q4)	2SA1837 2SA1837 2SA1837 ABA – 298 2SA1302		
			20 20-				८५—17		<b>A A A</b>	21 22 23 24 25	TRANSISTOR (Q7) TRANSISTOR (Q8) TRANSISTOR (Q11) TRANSISTOR (Q12) SCREW	2SA1302 2SA1302 2SA1302 2SA1302 ABA1037		2
-			20 21 20			$\lesssim^2$	23		<b>△ △ △ △ △ △</b>	26 27 28 29 30	TRANSISTOR (Q310) TRANSISTOR (Q22) TRANSISTOR (Q31) TRANSISTOR (Q32) TRANSISTOR (Q2)	2SC1740S 2SC4793 2SC4793 2SC4793 2SC3281		29 34
С			12	10		<b>}</b>	<del></del> 16		<u>^</u>	31 32 33 34 35	TRANSISTOR (Q5) TRANSISTOR (Q6) TRANSISTOR (Q9) TRANSISTOR (Q10) SCREW	2SC3281 2SC3281 2SC3281 2SC3281 2SC3281 BPZ30P350FZK		9 14 28
			11 8 19 8 7											33
-							9	3				35	13	25—32
D					4	2-	13							3
	4						1	1					35	19
1	3		1	2			3				4	•	5 🔳	6

## 3. POWER AMP SECTION

	3. P	UVVE	R AWP SECTION	
No.	Mark	No.	Description	Parts No.
586 i35 654 )96 P080FMC	NSP	1 2 3 4 5	MOLD A RADIATOR MOLD B AMP ASSY C, S FAN_CN AMP ASSY 200W	AMR7041 ANH7013 AMR7042 AWZ7698 AWZ7776
649 114 134 585 651	<u>↑</u>	6 7 8 9 10	TRANSISTOR (Q209) TRANSISTOR (Q23) THERMISTOR (TH1) TRANSISTOR (Q3) TRANSISTOR (Q210)	2SC1740S 2SA1837 150-203-73002 2SA1302 2SC1740S
)49	<u>^</u>	11 12 13 14 15	TRANSISTOR (Q21) TRANSISTOR (Q1) FAN MOTOR SCREW TRANSISTOR (Q309)	2SC4793 2SC3281 AXM7005 ABA - 283 2SC1740S
	<u>^</u>	16 17 18 19 20	TRANSISTOR (Q24) TRANSISTOR (Q33) TRANSISTOR (Q34) SCREW TRANSISTOR (Q4)	2SA1837 2SA1837 2SA1837 ABA – 298 2SA1302
	<u>^</u>	21 22 23 24 25	TRANSISTOR (Q7) TRANSISTOR (Q8) TRANSISTOR (Q11) TRANSISTOR (Q12) SCREW	2SA1302 2SA1302 2SA1302 2SA1302 ABA1037
	<b>↑ ↑ ↑ ↑ ↑</b>	26 27 28 29 30	TRANSISTOR (Q310) TRANSISTOR (Q22) TRANSISTOR (Q31) TRANSISTOR (Q32) TRANSISTOR (Q2)	2SC1740S 2SC4793 2SC4793 2SC4793 2SC3281
9	<u>↑</u>	31 32 33 34 35	TRANSISTOR (Q5) TRANSISTOR (Q6) TRANSISTOR (Q9) TRANSISTOR (Q10) SCREW	2SC3281 2SC3281 2SC3281 2SC3281 2SC3281 BPZ30P350FZK
3				25
				33
			4	•

## 3. SCHEMATIC AND PCB CONNECTION DIAGRAMS



#### NOTE FOR PCB DIAGRAMS:

Α

D

Ε

F

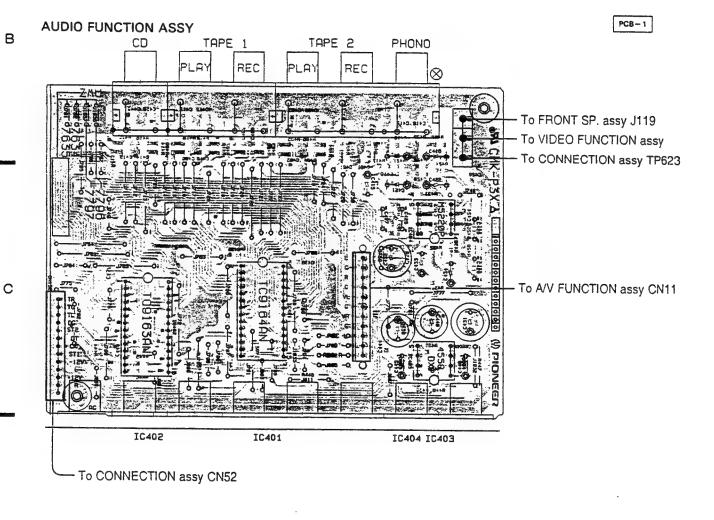
- Part numbers in PCB diagrams match those in the so diagrams.
   A comparison between the main parts of PCB and so diagrams.

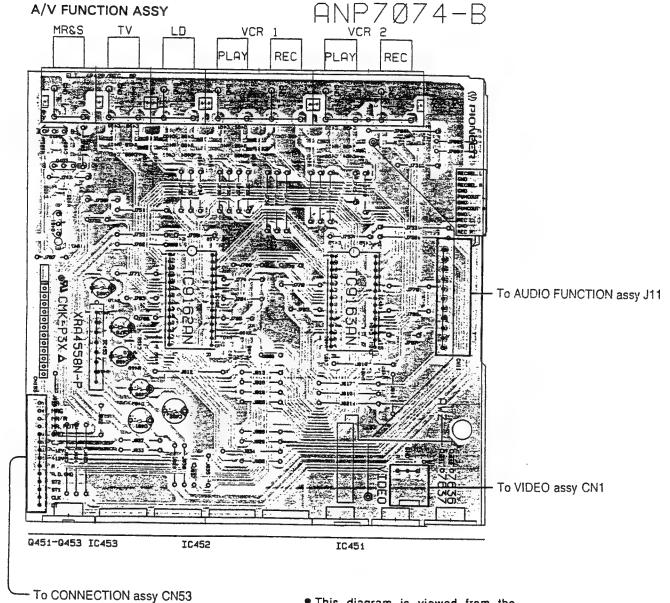
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
Q504 E 0 0 0	Q504 Q504	Transistor
©_D203-0	0-  <b>4</b> -0 D203	Diode
C513 C513	0 <del>- 11 °</del> 0 C513	Capacitor (Polarized)

The parts mounted on this PCB include all necessary parts for several destinations.

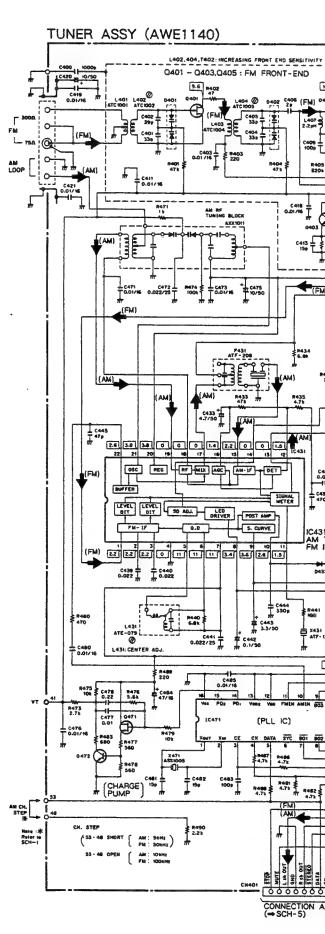
For further information for respective destinations, be sure to check with the schematic diagram.

The transistor terminal marked with E or □ shows the emitter
 The diode terminal marked with ⊚ or □ shows cathode side.
 The capacitor terminal marked with ⊚ or □ shows negative terminal.





### 3.3 TUNER ASSY



• This diagram is viewed from the mounted parts side.

PCB-2

SIGNAL ROUTE FM SIGNAL ROUTE AM SIGNAL ROUTE Q473: Q474: FM +B SW AM +B SW R460 \$ C462 ## 417/50

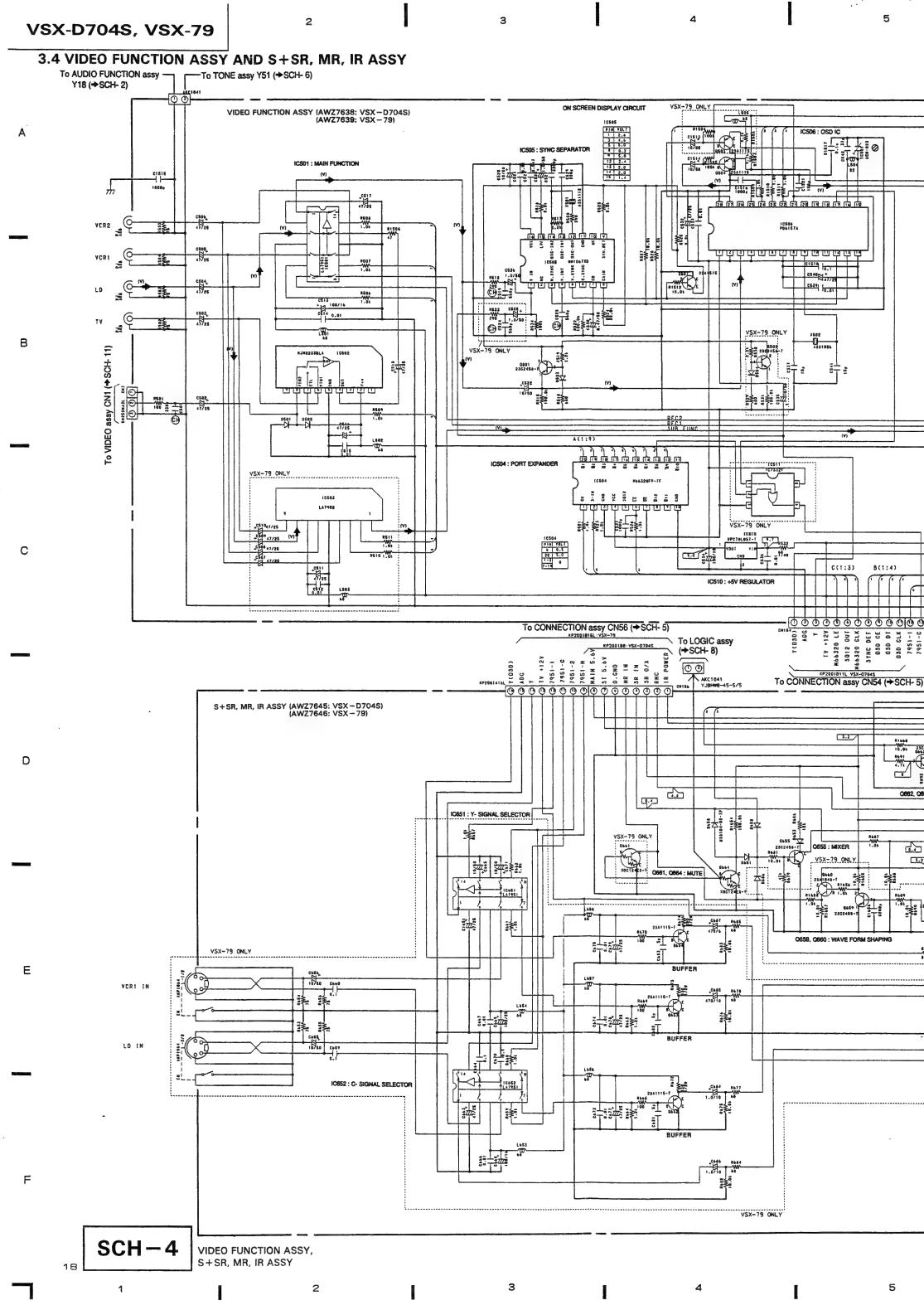
5

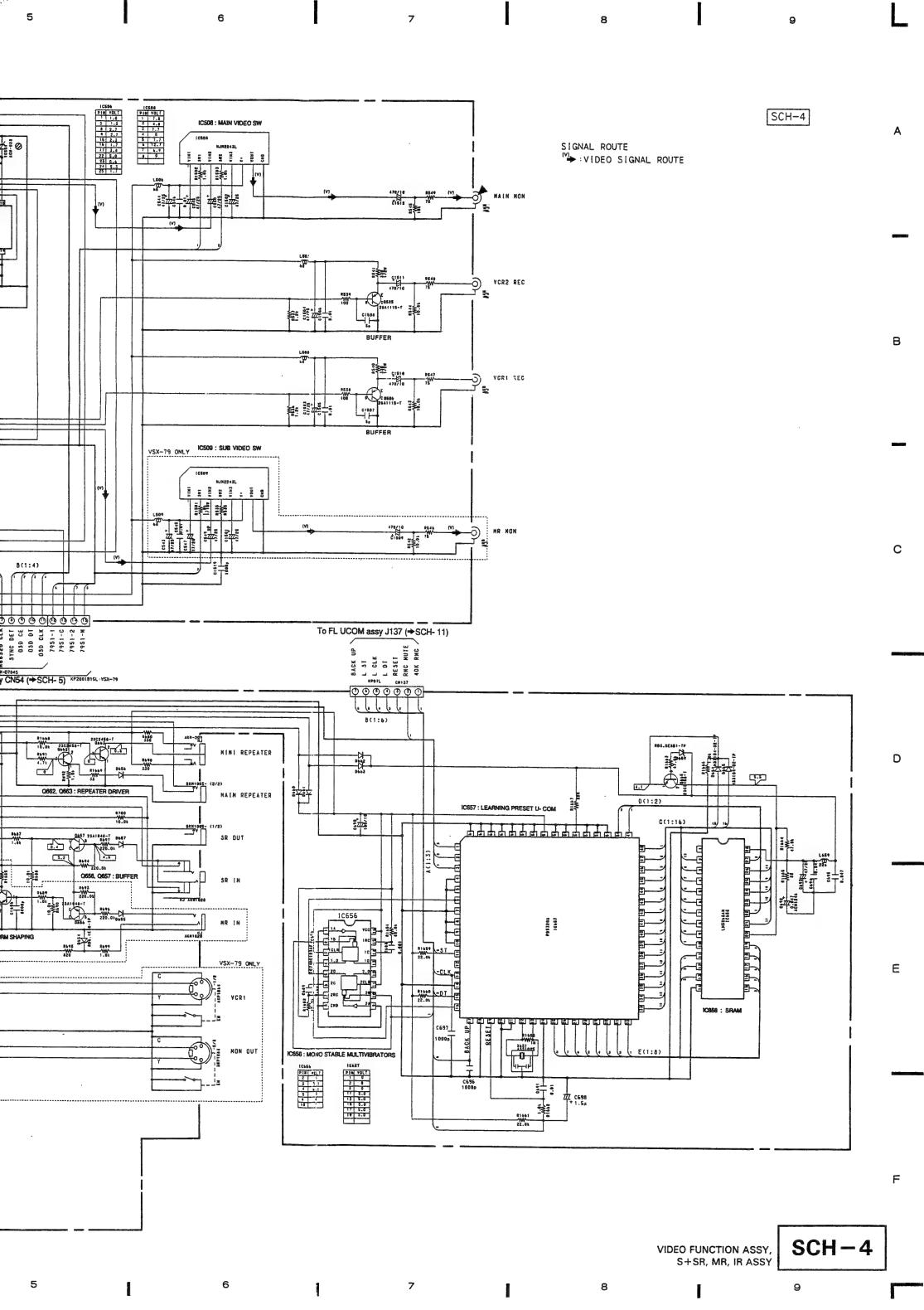
01 25K241 Q451 25C2803 Q401-403 15V147 Q2 25C2706 Q452.453 25C17405 Q431-435 15S252 Q431-435 Q471 25K246 Q472 25C17405UN Q473, 474 RN2201

**⊙** S 000 () () (C) (I) PIONEER To CONNECTION assy CN51 -

**TUNER ASSY** 

 This diagram is viewed from the mounted parts side.





**VIDEO FUNCTION ASSY** To AUDIO FUNCTION assy IC502 IC503 IC509 IC511 IC501 Q503 IC506 IC505 **G501** IC508 IC510 0502 0507 To VIDEO assy CN1 -To CONNECTION assy CN54

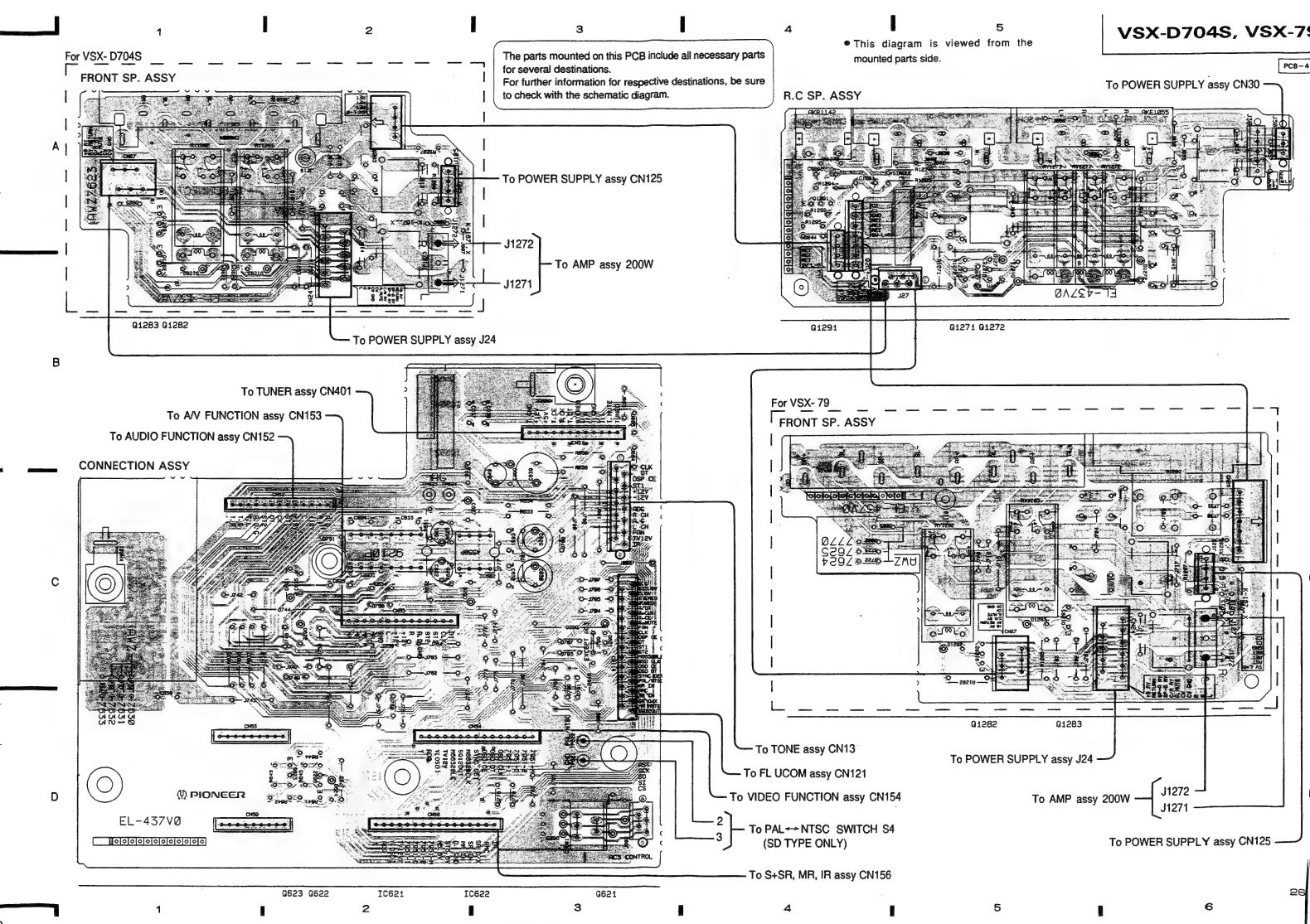
S+SR, MR, IR ASSY To FL UCOM assy J1 37 Q652 Q661-Q664 Q655 IC656 Q656 Q659 Q660 Q654 10652 0665 IC651 IC658 IC657 - To CONNECTION assy CN56

• This diagram is viewed from the mounted parts side.

for several destinations.

The parts mounted on this PCB include all necessary parts

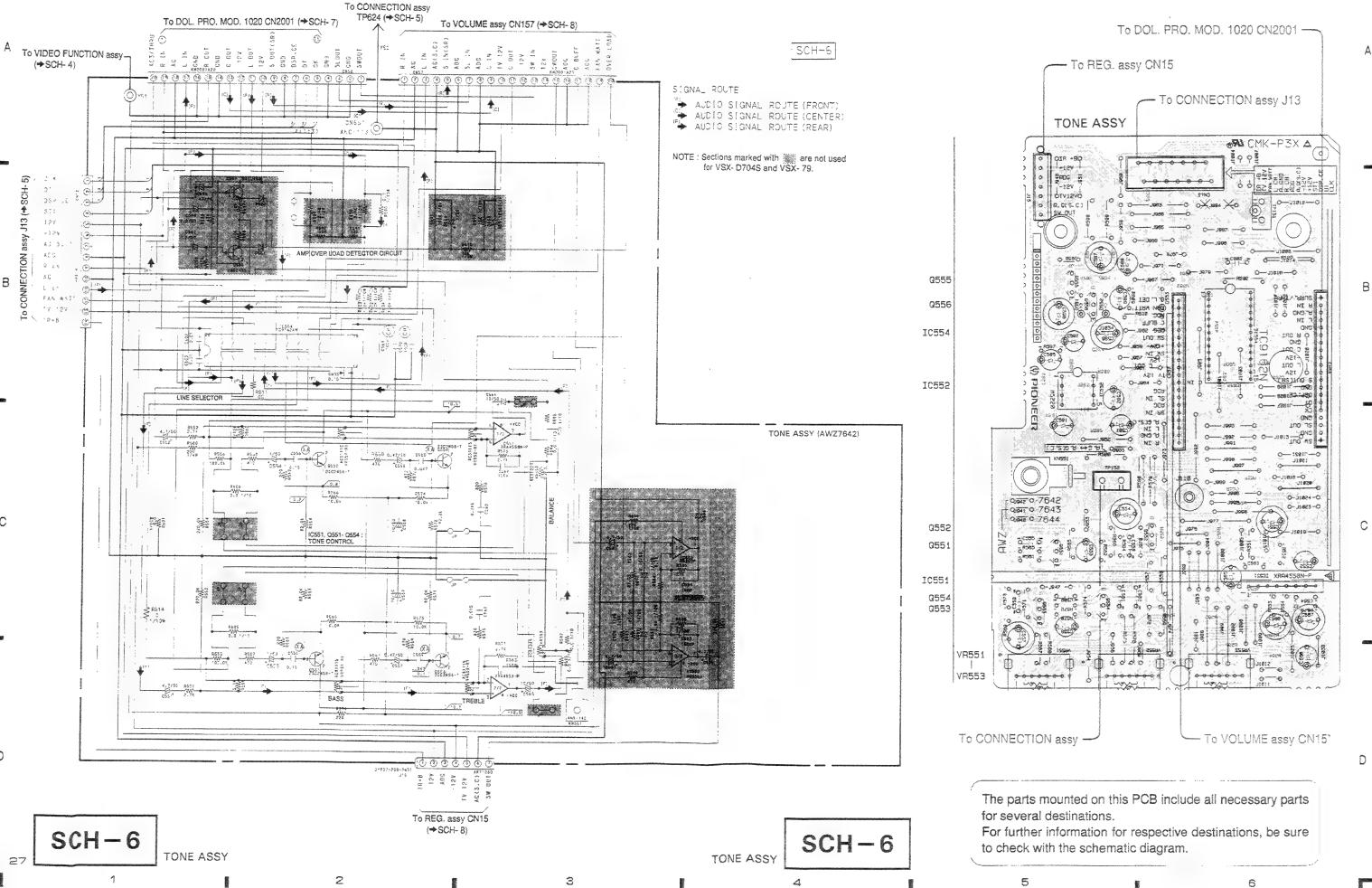
For further information for respective destinations, be sure to check with the schematic diagram.



3.6 TONE ASSY

D

• This diagram is viewed from the mounted parts side.



2

8-839

ε

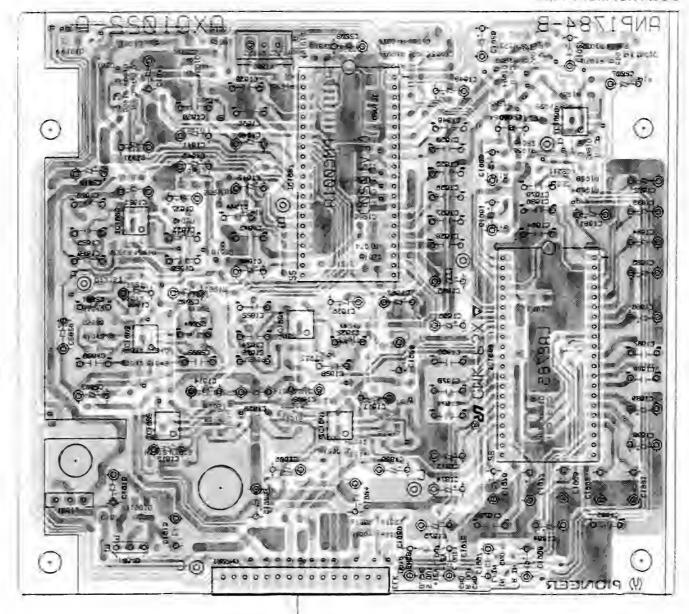
3.7 DOL. PRO. MOD. 1020

01903 IC1906 01902 IC1908

IC1907 IC1901 IC1904

01905 01904 IC1905 IC1902IC1903 01901

DOL. PRO. MOD. 1020



To TONE assy CN58 -

- This diagram is viewed from the gray colored foil side.
- This PCB is double sided.

a

29

2

3

PCB-6

3.7 DOL. PRO. MOD. 1020

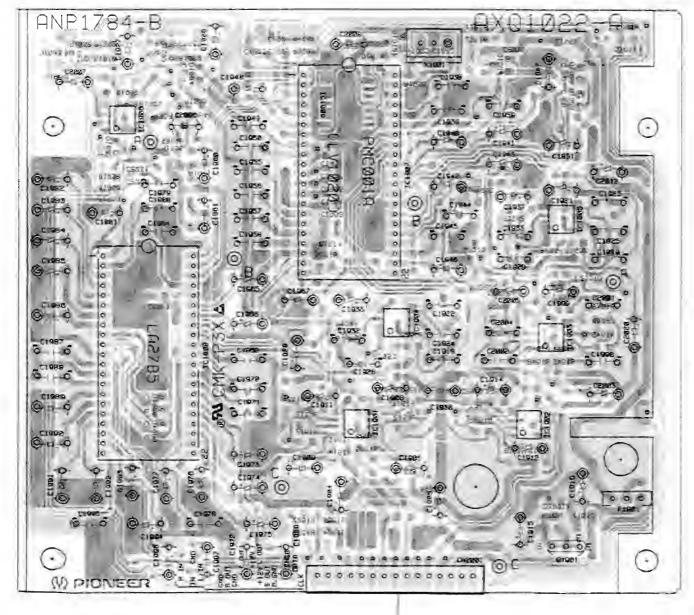
The parts mounted on this PCB include all necessary parts for several destinations.

For further information for respective destinations, be sure to check with the schematic diagram.

Q1903 IC1906 Q1902

IC1907 IC1901 IC1904 Q1905 Q1904 IC1905 IC1902 IC1903 Q1901

DOL. PRO. MOD. 1020



 This diagram is viewed from the pink colored foil side.

This PCB is double sided.

2

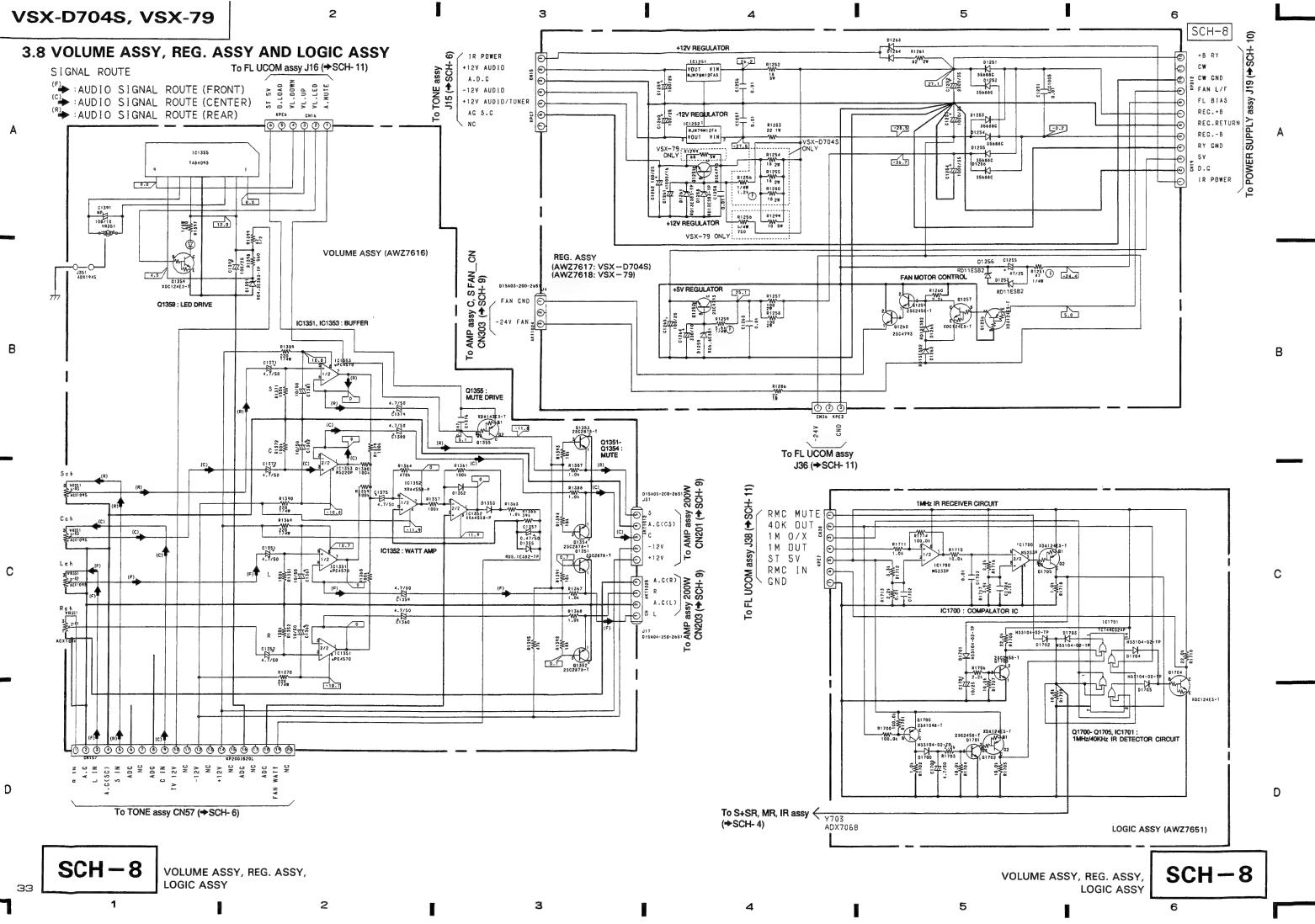
To TONE assy CN58

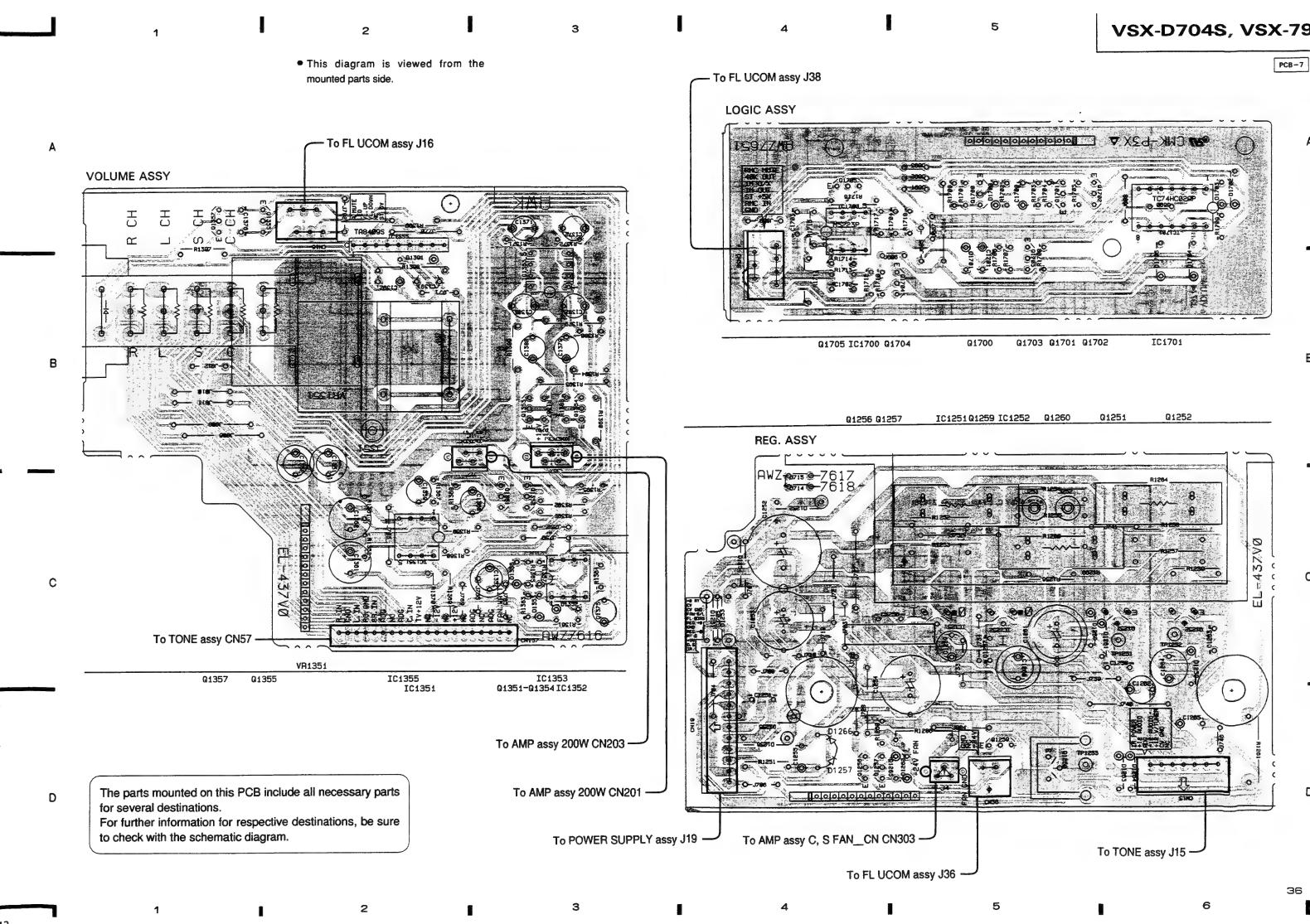
3

D

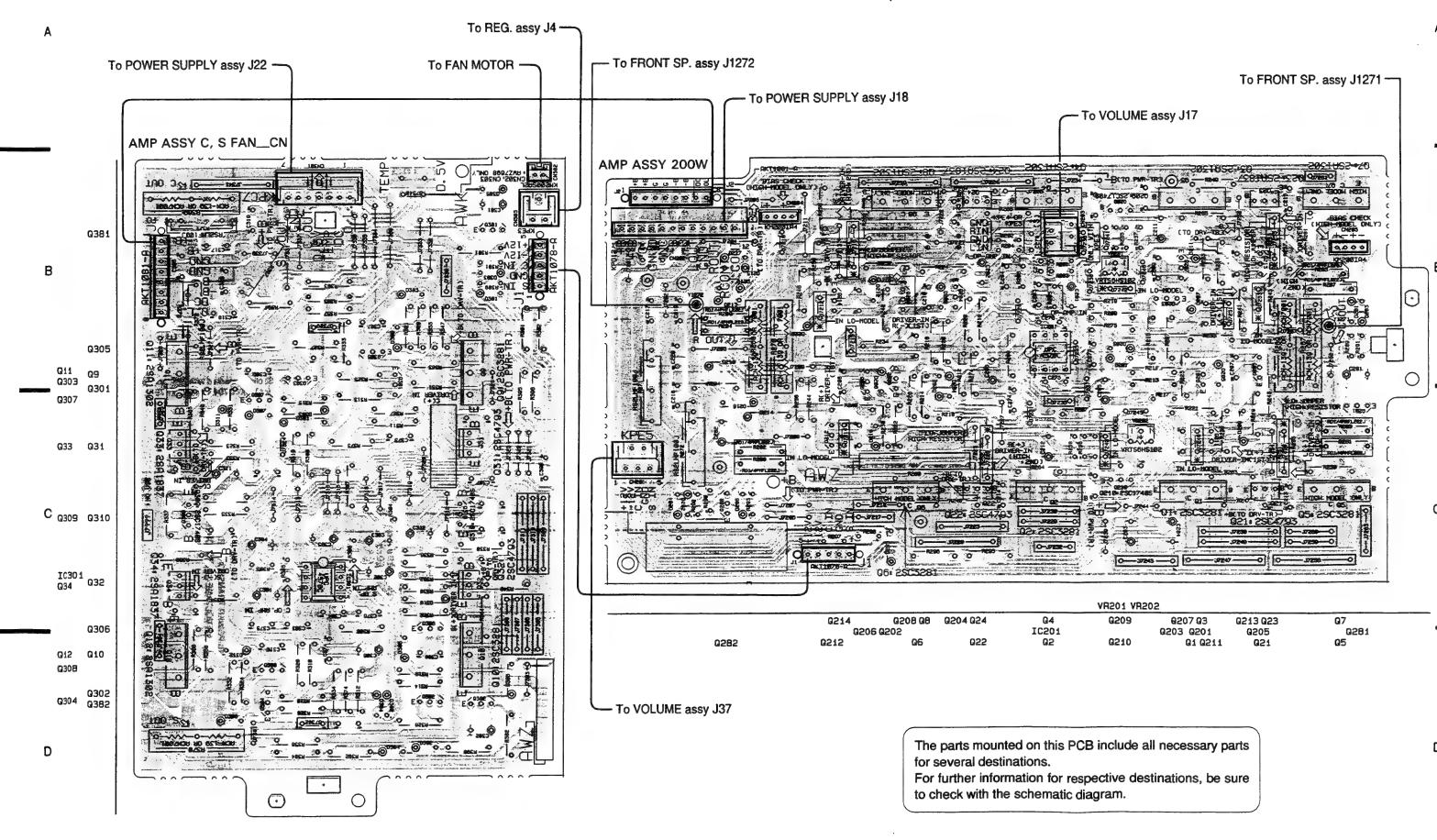
8

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• This diagram is viewed from the mounted parts side.



VSX-D704S, VSX-79

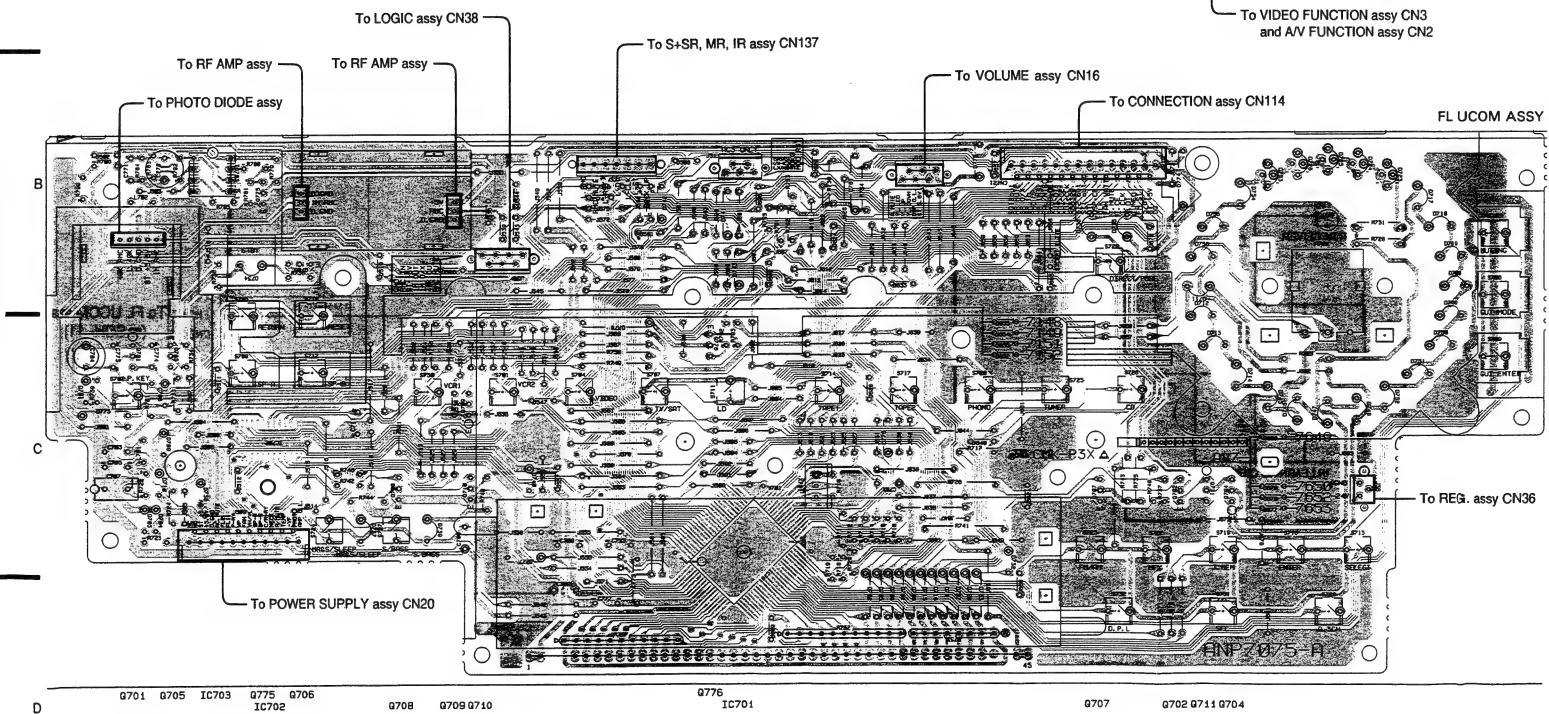
PCB-10

The parts mounted on this PCB include all necessary parts for several destinations.

For further information for respective destinations, be sure to check with the schematic diagram.

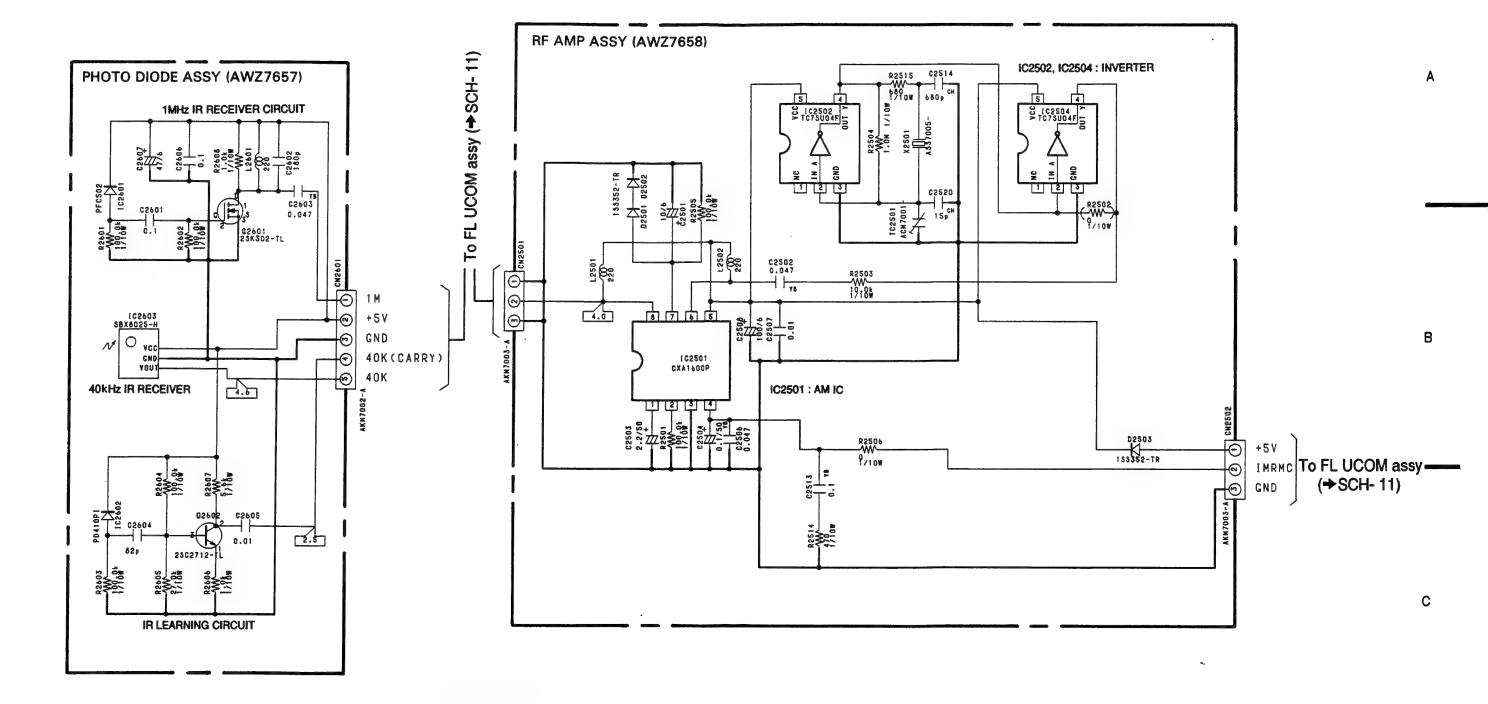
• This diagram is viewed from the mounted parts side.

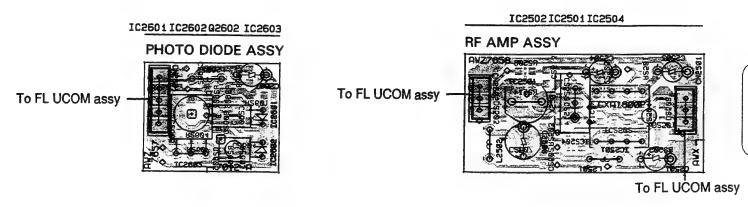
**VIDEO ASSY** 



SCH-12

## 3.12 PHOTO DIODE ASSY AND RF AMP ASSY





The parts mounted on this PCB include all necessary parts for several destinations.

For further information for respective destinations, be sure to check with the schematic diagram.

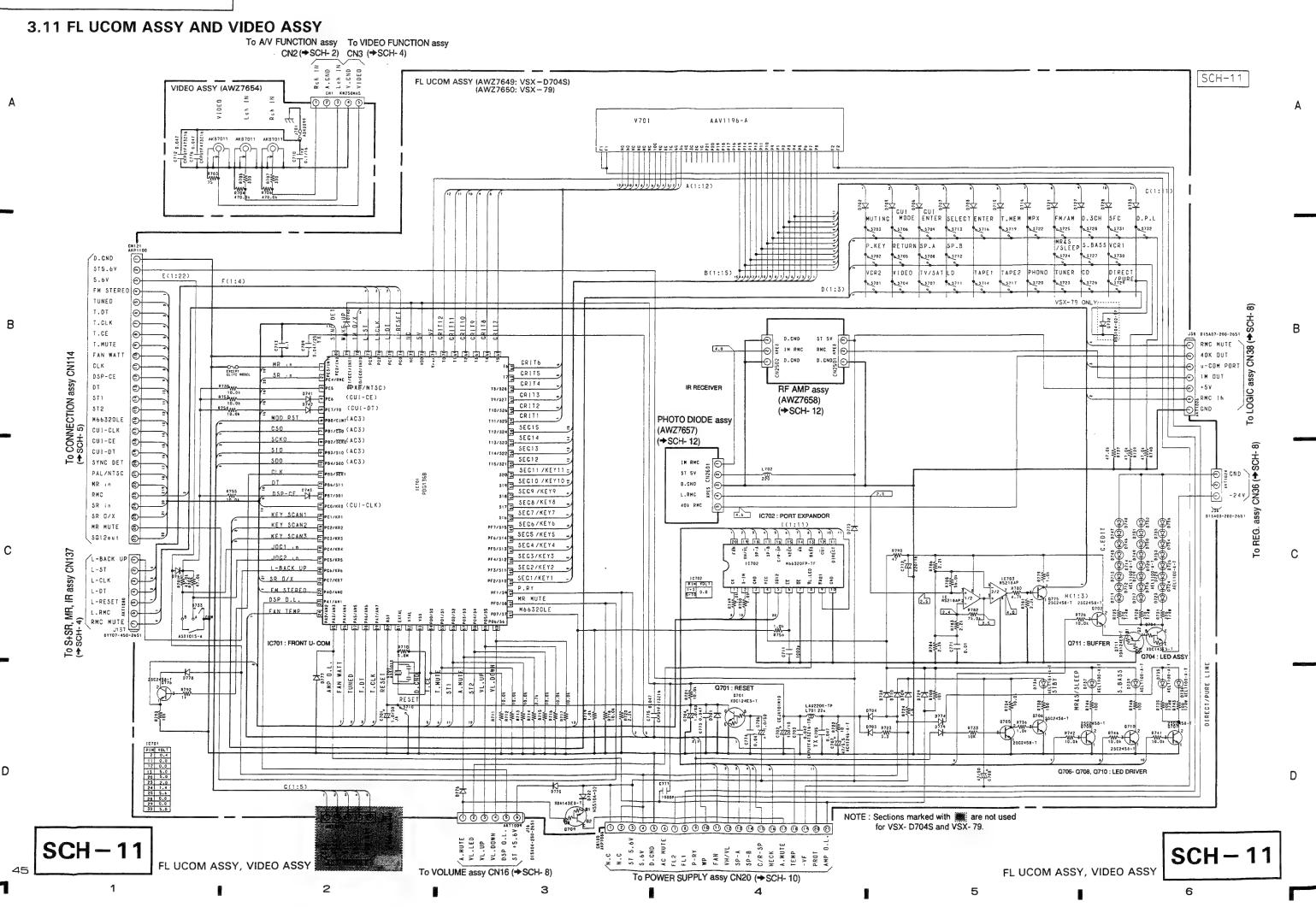
• This diagram is viewed from the mounted parts side.

SCH-12

PHOTO DIODE ASSY, RF AMP ASSY

PHOTO DIODE ASSY, RF AMP ASSY

PCB-11



.

## 4. PCB PARTS LIST (for VSX-D704S/KU)

#### NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "®" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
  - Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).  $5.62k\Omega \rightarrow 562 \times 10^{1} \rightarrow 5621 \cdots RM1/4PC$  [5] [6] [2] 1 F

Mark	No. Description	Parts No.	Mark No. Description	Parts No.
LIST	OF ASSEMBLIES		Q401	2SK241
NSP	TINED ACCV	A 7077211 40	Q471	2SK246
NSP	TUNER ASSY	AWE1140	Q473, Q474	RN2201
	D		D431 - D435	1SS252
	BIĢ SIGNAL ASSY	AWK7136	D401 - D403	1SV147
	─ VOLUME ASSY	AWZ7616	D401-D403	15 / 14 /
	REG. ASSY	AWZ7617	COULC AND EU TEDO	
	POWER SUPPLY ASSY	AWZ7619	COILS AND FILTERS	
	PRIM ASSY	AWZ7620	L401	ATC1001
NSP	TRANS ASSY	AWZ7622	L402	ATC1002
NSP	FRONT SP. ASSY	AWZ7623	L405	ATC1003
NSP	R.C SP. ASSY	AWZ7626	L403	ATC1004
1101	CONNECTION ASSY	AWZ7630	L404	ATC1005
	— CONNECTION ASSI	AW2/030	D404	AICIOO
	SMALL SIGNAL ASSY	AWK7143	T402	ATE - 063
	<ul> <li>AUDIO FUNCTION ASSY</li> </ul>	AWZ7634	L431	ATE-079
	— A/V FUNCTION ASSY	AWZ7636	F421	ATF-107
	<ul> <li>VIDEO FUNCTION ASSY</li> </ul>	AWZ7638	F422	ATF-119
	- TONE ASSY	AWZ7642	F431 (450KHZ)	ATF-208
	S+SR, MR, IR ASSY	AWZ7645		
	2 · 224, 1.224, 222 2		L406, L407	LAU2R2M
	FRONT ASSY	AWK7148	•	
	FL UCOM ASSY	AWZ7649	CAPACITORS	
	LOGIC ASSY	AWZ7651		4.004.000
NSP	VIDEO ASSY		C454 (470pF/50V)	ACE1039
Nor		AWZ7654	C466	CCCSL 121J50
	- IR RECEIVER ASSY	AWX7012	C417	CCDCH1010C50
	-PHOTO DIODE ASSY	AWZ7657	C406	CCDCH 020C50
	☐ RF AMP ASSY	AWZ7658	C415	CCDCH 080D50
	POWER AMP MODULE 200W	AWK7175	C413, C481, C482	CCDCH 150J50
	AMP ASSY C, S FAN_CN	AWZ7698	C414 .	CCDCH330J50
	AMP ASSY 200W	AWZ7776	C401, C404, C405	CCDRH1330J50
			C402	CCDRHI390J50
	DOL. PRO. MOD. 1020	AXQ1022	C416	CCDTH180J50
	202.110.1102.1020	1210100	C410	CCD1A180330
			C479	CCPUSL220J50
			C445	CCPUSIA70J50
UNE	R ASSY		C452	CEANP4R7M35
SEMIC	CONDUCTORS		C442	CEASOIR1M50
		ANGAGOD	C420, C437, C475	CEAS100M50
	IC451	AN7470P	•	
	IC431	LA1265S	C451	CEAS1O1M16
	IC471	LM7001	C456	CEAS1IR5M50
	Q454	2SA933S	C438	CEAS2IR2M50
	Q452, Q453	2SC1740S	C443, C455	CEAS3IR3M50
			C458, C463, C464, C484	CEAS470M16
	Q472	2SC1740SLN	C100, C100, C101, C404	CEASTS OUT
	Q451	2SC2603	C422 C461 C460	CEAS4IR7M50
	Q403, Q421	2SC2668	C433, C461, C462	
	Q402	2SC2786	C457	CEASR 22M50
	Q405	2SK161	C478	CFTXA 224J50
	****	2012IVI	C477	CKCYF 103Z50
			C439, C440	CKCYF 223Z50

Mark No. Description	Parts No.	Mark No. Description	Parts No.
C435	CKCYF472Z50	Q1257	XDC124ES
C453	CKCYF473Z50	D1263, D1264	1SS252
C436	CKCYX683M25	D1257, D1266	RD11ESB2
C400	CKDYF102Z50	D1265	RD12ESB2
C409, C483	CKPUYB101K50	D1262	RD13ESB2
C409, C463	CM CIDIORS	D1202	RD13E3D2
C444	CKPUYB331K50	D1258, D1261	RD13ESB3
C441, C472	CKPUYF223Z25	D1259	RD6.8ESB1
C403, C410 – C412, C418, C419	CKPUYY103N16	D1251-D1256	S5688G
C421, C422, C465, C471, C473 C476, C480, C485	CKPUYY103N16 CKPUYY103N16	CAPACITORS	
0110, 0100, 0100	044 0 4 2 4 0 0 4 1 2 0	C1251 (0.01µF/150V)	ACG1005
C459, C460	CQMA102J50	C1259, C1260, C1262, C1265	CEAS101M25
C468, C469	CQMA182J50	C1261	CEAS102M16
C446, C447	CQMA561K50	C1253, C1254	CEAS102M35
		C1252	CEAS222M35
ESISTORS	4 (77)10.40	G1004	OD 4 00013 (10
$VR451$ (4.7k $\Omega$ )	ACP1042	C1264	CEAS331M10
VR431 $(10k\Omega)$	ACP1043	C1255	CEAS470M25
VR432	VRTS6VS153	C1256—C1258, C1263	CKCYF103Z50
Other Resistors	RD1/8PM□□□J	RESISTORS	
THERS			DD4 /4D4 /D40/
	A 7/ A 101 /	R1256	RD1/4PMF12
ANTENNA TERMINAL 4-P	AKA1014	R1259	RD1/4PMF562
X471 CRYSTAL RESONATOR	ASS1005	R1251	RFA1/4PS470
X431 CERAMIC FILTER	ATF-125	R1286	RS1LMF220J
AM RF TUNING BLOCK CN401 12P SOCKET	AXX1011 KP2001A12L	R1253	RS1PMF220J
CN401 121 SOCKE1	M SOURISE	R1257, R1258	RS2LMF101J
		R1254, R1255, R1280	RS2LMF180J
OLUME ASSY		R1261	RS2LMF820J
		R1252	RT5PD180K
EMICONDUCTORS		Other Resistors	RD1/8PM□□
IC1355	TA8409S		
IC1351, IC1353	UPC4570C	OTHERS	
IC1352	XRA4558-P	SCREW	A T3 A 000
Q1351-Q1354	2SC2878	HEAT SINK	ABA - 298 ANH - 309
Q1355	XDA143ES		
		CN15 CONNECTOR (7P)	KPC7
Q1357	XDC124ES	CN36 CONNECTOR (3P)	KPE3
D1352, D1353	HSS104-02		
D1391	RD4.3ESB	DOMED CURRLY ACCY	
D1355	RD5.1ESB2	POWER SUPPLY ASSY	
ADAGIZODO		SEMICONDUCTORS	
APACITORS		Q1321, Q1322	2SA1048
C1391	CEANP101M10	Q1316	2SA1515
C1361, C1362, C1381, C1382	CEAS100M50	Q1314, Q1315, Q1318, Q1320	2SC2458
C1392	CEAS101M25	Q1312, Q1313, Q1323, Q1324	2SC2878
C1351, C1352, C1359, C1360	CEAS4R7M50	Q1317, Q1325	XDA143ES
C1371, C1372, C1375, C1379, C1380	CEAS4R7M50		
	OD 4 OD 453 450	Q1311	XDC143ES
C1357	CEASR47M50	D1301, D1302	D5SB20F
C1376	CKPUYF473Z16	D1311, D1316, D1318, D1319	HSS104-02
SUSTORS		D1325-D1327	HSS104-02
ESISTORS		D1317	RD2.7ESB1
$VR1351 (100k\Omega \times 4)$	ACX1074	Dance From:	
R1399	RD1/2PM470J	D1321-D1324	RD20ESB
R1369, R1370, R1389, R1390	RD1/4PM221J	D1315	RD6.2ESB
R1397	RD1/4PM621J	014#70#70 44*5 57**	
Other Resistors	RD1/8PM	SWITCHES AND RELAYS	
		RY1311, RY1312	ASR1027
THERS		RY1313	ASR1035
CABLE HOLDER	AKT1012	CAPACITORS	
CN157 20P SOCKET	KP200IB20L		
CN16 CONNECTOR (6P)	KPE6	C1301, C1302 (0.01µF/150V)	ACG1005
		C1303 (12000µF/80V)	ACH1263
50 1004		C1304 (12000µF/80V)	ACH1264
LI A CCV		C1311	CEAS101M10
EG. A551		C1317	CEAS101M35
EG. ASSY EMICONDUCTORS			
EMICONDUCTORS	NIM7QM19EAC	One	
EMICONDUCTORS IC1251	NJM78M12FAS	C1315	CEAS221M16
EMICONDUCTORS IC1251 IC1252	NJM79M12FA	C1312	CEAS470M25
EMICONDUCTORS IC1251			

Mark N	No. Description	Parts No.	Mark No. Description	Parts No.
RESISTOR	S		FRONT SP. ASSY	
R13		RD1/4PMF100J	SEMICONDUCTORS	
R13		RD1/4PMF2R2J	Q1282, Q1283	XDC143ES
R13	18	RD1/4PMF682J	D1282, D1283	HSS104-02
R13		RFA1/4PS4R7J		
R13	12	RS1LMF332J	SWITCHES AND RELAYS	
R13	11	RS1PMF470J	RY1282, RY1283	ASR1035
	23, R1324	RS2LMF331J	PEGIOTOPO	
Othe	er Resistors	$RD1/8PM\square\square\square J$	RESISTORS	
			R1282, R1283	RD1/4PMF100
THERS			Other Resistors	RD1/8PM
	JACK	AKN1002	OTHERS	
CN2	20 21P SOCKET CABLE HOLDER	AKP1084 AKT1007	CN8004 SPEAKER TERMINAL	8-P AKE1048
	CABLE HOLDER (7P)	AKT1080	CABLE HOLDER (4P)	AKT1077
	CABLE HOLDER (12P)	AKT1085	CN26 CONNECTOR (4P)	KPC4
	,		CN24 CONNECTOR (11P)	KPE11
CN3		KPC3	CN27 CONNECTOR (6P)	KPE6
CN1		KPC4		
CN2	23 CONNECTOR (5P)	KPC5	R.C SP. ASSY	
			SEMICONDUCTORS	
RIM AS	SY			0000070
	DUCTORS		Q1291 Q1271	2SC2878 XDC143ES
IC5		NIM78M56FAS	D1271	HSS104 - 02
Q52		2SC4793	Diani	1100101
Q51		XDC143ES	SWITCHES AND RELAYS	
D51		HSS104-02	RY1271	ASR1035
D54	ł	HZS6A1L		
		DD10D0D1	CAPACITORS	
D55		RD13ESB1 S1WB20	C1291, C1292	CEANPR47M5
D53 D52		S5688G		
<b>D</b> 02	•	00000	RESISTORS	
OILS AN	D FILTERS		R1272	RD1/4PMF100
L51	(0.3mH, 270V)	ATF1006	Other Resistors	RD1/8PM□□[
			OTHERS	
RANSFO			CN8007 2P PIN JACK	AKB7008
T51	L	ATT7006	CN8016 SPEAKER TERMINAL:	2-P AKE1041
NATCHE!	S AND RELAYS		SPEAKER TERMINAL	
RY		ASR1036	CABLE HOLDER (3P)	AKT1076
K1.	51	AORTOO	CABLE HOLDER (4P)	AKT1077
CAPACITO	ORS			
C51	., C52, C56	ACG1054	CONNECTION ASSY	
C53		CEAS102M25	SEMICONDUCTORS	
C55		CEAS470M25	Q622	2SA1515
C54	l .	CKCYB103K50	Q623	2SC2458
RESISTOR	2		D624	1SS252
		ACN-208	D623	RD5.1ESB2
R52 R53	2 (2.2MΩ, 1/2W) 3	RD1/4PMF332J	CARACITORS	
R51		RD1/4PMF4R7J	CAPACITORS	CCCCH1.01J50
	er Resistors	RD1/8PM	C623, C624 C637, C638	CCCSL101J50
			C639 -	CEAS101M25
OTHERS		4.000	C640	CEAS470M25
<u> </u>	AC OUTLET 3P	AKP1053		
	1, H52 FUSE CLIP 22 CONNECTOR (5P)	AKR1003 KPC5	RESISTORS	
CN	44 CONNECTOR (SP)	Mω	R639	RD1/2PIM181J
			R638	RD1/4PIMF150
RANS A	ASSY		Other Resistors	RD1/8PM□□
ESISTOR			OTHERS	
	341, R1342	RFA1/4PL4R7J	CN114 SOCKET (27P)	AKP109*9
Mi	,		CN114 SOCKET (27P) CN53 10P PLUG	KM20011B10
THERS			CN54 11P PLUG	KM20011B11
	341-H1344 FUSE CLIP	AKR1003	CN51 12P PLUG	KM2001 B12
			CN52 13P PLUG	KM2001 B13
			ONICE OF BUILD	KM200 <b>L</b> B8
			CN56 8P PLUG CN55, CN59 9P PLUG	KM200LB8
			CNOO, CNOO OF FLUG	FINICOLI

Mark No. Description	Parts No.	Mark No. Description	Parts No.
AUDIO FUNCTION ASSY		CAPACITORS	
SEMICONDUCTORS		TC501	ACM-023
	A COOOD	C1507, C1508	CCSQCH050C
IC404	M5220P	C1521	CCSQCH101J5
IC401	TC9164AN XRA4558-P	C537, C541	CCSQCH150J5
IC403	ARA4558-P	C529	CCSQCH221J5
CAPACITORS		C542	CCSQCH330J5
C1402, C1403	CCSQCH101J50	C501	CCSQCH331J5
C447	CCSQCH102J50	C519, C528	CCSQCH561J5
C419, C420	CCSQCH221J50	C525, C526	CEAS010M50
C417, C418	CCSQCH681J50	C1514, C520, C522	CEAS100M50
C423, C424	CCSQSL101J50	CERA	CEAC1013410
C415, C416	CEAS100M50	C534 C513	CEAS101M10 CEAS101M25
C421, C422, C431, C432	CEAS101M25	C1502-C1504, C502-C506	CEAS470M25
C433, C434, C439, C440	CEAS2R2M50	C516-C518, C532, C540, C544	CEAS470M25
C1401, C429, C430, C435, C436	CKSQYF103Z50	C548, C550	CEAS470M25
C441, C444	CKSQYF103Z50	0.00	077404747
C427, C428	CQMA242J50	C1510—C1512 C530	CEAS471M10 CEASR47M50
C425, C426	CQMA822J50	C1515, C1516, C1519, C531	CKSQYB102K
		C1517, C1518	CKSQYB104K
ESISTORS		C527	CKSQYB332K
All Resistors	RS1/10S	C1505, C1506, C514, C515, C521	CKSQYF103Z
THERS		C533, C536, C539, C546	CKSQYF103Z
PIN JACK (6P)	AKB7012	C523	CKSQYF473Z
PIN JACK (6P)	AKB7013		•
CABLE HOLDER (11P)	AKT1084	RESISTORS	
CN152 13P SOCKET	KP200IB13L	R540, R541	RD1/2PM331]
211202 201 0001223		R532	RD1/4PM680J
h		Other Resistors	RS1/10S
A/V FUNCTION ASSY		OTHERS	
SEMICONDUCTORS		PIN JACK (2P)	AKB7016
IC451	TC9163AN	2P RCA PINJACK	AKB7017
		3P RCA PINJACK	AKB7018
CAPACITORS		X502 CRYSTAL RESONATOR	ASS1056
C494, C495	CCSQCH101J50	X501 CERAMIC RESONATOR	ASS1112
C487	CCSQCH102J50		
C481, C482	CEAS470M25	CN3 PLUG 3-P	KM250MA3L
C475, C476, C483, C484, C491	CKSQYF103Z50	CN154 11P SOCKET	KP200IB11L
RESISTORS		CN155 9P SOCKET	KP200IB9L
	BC1/1000001		
All Resistors	RS1/10S	TONE ASSY	
THERS		SEMICONDUCTORS	
PIN JACK (4P)	AKB7014		MO04 00 431
PIN JACK (4P)	AKB7015	IC554	TC9162AN
CN2 PLUG 3-P	KM250MA3L	IC551	XRA4558N-F
CN153 10P SOCKET	KP200IB10L	Q551-Q554	2SC2458
CN11 L-CONNECTOR (11P)	KPD11L	CAPACITORS	
		C569, C570	CCSQCH101J5
/IDEO FUNCTION ASSY		C603	CCSQCH471J5
SEMICONDUCTORS		C553, C554	CEAS010M50
	T A 2004	C565—C568	CEAS100M50
IC501	LA7951 M66320FP	C551, C552	CEAS4R7M50
IC504 IC505	MM1067XD	C557, C558	CEASR47M50
IC502	NJM2233BLA	C555, C556	CFTXA154J50
IC508	NJM2243L	C559, C560	CFTXA473J50
		C602	CKCYF103Z50
IC506	PD6157A	C563, C564	CKPUYB151K
IC510	UPC78L05J	0	
Q504 - Q506	2SA1115	C601	CKSQYF103Z5
Q507	2SA1515	C561, C562	CQMA153J50
Q501	2SC2458	RESISTORS	
D501-D503	HSS104-02	VR553 (10kΩ-B×2)	ACS1029
	_	VR553 ( $10k\Omega - B \times 2$ ) VR551, VR552 ( $30k\Omega - B5 \times 2$ )	ACS1029 ACS1115
OILS AND FILTERS		R579, R580	RD1/4PM221J
L504	LAU220J	R590, R594-R597, R601	RS1/10S000J

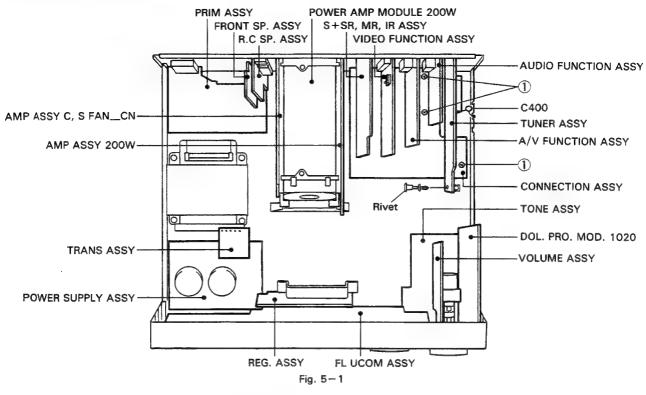
Mark No. Description	Parts No.	Mark No. Description	Parts No.
R602-R604	RS1/10S102J	D701-D710, D715, D716	HSS104-02
R555, R556	RS1/10S104J	D721, D722, D727-D729, D733	HSS104-02
R577	RS1/10S272J	D738, D740-D743, D761	HSS104-02
R560	RS1/10S512J	D773-D779	HSS104-02
Other Resistors	RD1/8PM	COILS AND FILTERS	
THERS		L701	LAU220K
CABLE HOLDER (7P)	AKT1080	L702	LAU221K
CN58 15P PLUG	KM200IB15	SWITCHES AND RELAYS	
CN57 20P PLUG CN13 CONNECTOR (14P)	KM200IB20 KPE14		1001004
CN13 CONNECTOR (14P)	171 1714	\$701 – \$714, \$716, \$717 \$719, \$720, \$722 – \$732	ASG1034 ASG1034
TED MD ID ACCV		S733	ASX1015
S+SR, MR, IR ASSY EMICONDUCTORS		CAPACITORS	
IC658	LH5268AN1TLL	C707	ACH1246
IC657	PD5320A	C704, C706	CEASO10M50
IC656	TC74HC123AF	C772	CEAS221M16
Q657	2SA1048	C708	CEAS470M50
Q655, Q662, Q663	2SC2458	C701	CEJA010M50
Q665	2SC3732	C702	CEJA101M10
Q664	XDC124ES	C711, C777	CKCYB102K50
D666	1SS252	C713 C705, C709, C773, C774	CKCYX104M25 CKCYX473M25
D651 – D653, D657, D658 D660 – D665	HSS104-02 HSS104-02	C771	CKPUYF103Z2
D659	RD3.0ESB1	C703, C775	CKPUYF473Z1
COILS AND FILTERS		RESISTORS	
L659	LAU220K	R725, R728, R731	RD1/4PM271J
2009	Zi i Casoii	Other Resistors	RD1/8PM□□
CAPACITORS		OTHERS	
C692	ACH1246	V701 FL TUBE	AAV1196
C690	CEAS101M10 CEAS470M25	CN120 21P SOCKET	AKP1086
C693 C688, C689, C696, C697	CKSQYB102K50	CN121 SOCKET (27P)	AKP1100
C698	CEAS1R5M50	CABLE HOLDER (7P)	AKT1080
C096		SHIELD CASE A (MET)	ANK7009
C691 C694, C695	CKSQYF103Z50 CKSQYF473Z50	SHIELD CASE B (MET)	ANK7O10
·	0110021110000	X701 CERAMIC RESONATOR	ASS1015
RESISTORS	DC1/100		
All Resistors	RS1/10S□□□J	LOGIC ASSY	
OTHERS		SEMICONDUCTORS	
CN1001 JACK	AKN-209	IC1700	M5223P
CN1002 JACK	AKN1028	IC1701	TC74HC02AP
X651 CERAMIC RESONATOR	ASS1025	Q1700	2SA1048
JACK	BKN1005	Q1701, Q1703	2SC2458
CN156 8P SOCKET	KP200IB8L	Q1702, Q1705	XDA124ES
CN159 9P SOCKET	KP200IB9L	Q1704 D1700-D1705	XDC1Z4ES HSS104-02
L UCOM ASSY		CAPACITORS	
SEMICONDUCTORS		C1701	CEAS1L00M50
	Mentor	C1700	CEAS4R7M50
IC703	M5218AP M66320FP	C1702, C1704	CKCYF103Z50
IC702 IC701	M66320FP PDG136B	C1703	CFTXA103J50
Q702, Q705—Q708, Q710	2SC2458		
Q775, Q776	2SC2458	RESISTORS All Resistors	RD1/8 <b>P</b> M□□
Q711	XDA124ES	All Resistors	MDI/OA MALLE
Q709	XDA143ES	OTHERS	
Q701	XDC124ES	CN38 CONNECTOR (7P)	KPE7
Q704	XDC143ES		
	AEL1100		
D711-D714, D717-D720		VIDEO ACCV	
	AEL1100	VIDEO ASSY	
D711-D714, D717-D720	AEL1100 AEL1100 BR3361XJ65A	VIDEO ASSY CAPACITORS  C710	CKCY_X104M1

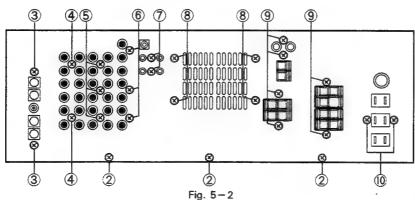
Mark No. Description	Parts No.	Mark No. Description	Parts No.
RESISTORS		AMP ASSY C, S FANCN	
All Resistors	RD1/8PM	SEMICONDUCTORS	
		IC301	UPC4570C
OTHERS		Q303-Q306	2SA1145
PIN JACK (1P)	AKB7011	Q381, Q382	2SC2240
CN1 PLUG 5-P	KM250MA5	Q301, Q302, Q307, Q308	2SC2705
		D301-D308, D381-D386	1SS252
PHOTO DIODE ASSY		D309-D312	MTZJ3.3
SEMICONDUCTORS		O A D A OUTODO	
IC2602	PD410PI	CAPACITORS	
IC2601	PFC502	$\triangle$ C385 (0.01 $\mu$ F/150V)	ACG1005
IC2603	SBX8025-H	C307—C310	CCCSL151K500
Q2602	2SC2712	C383, C384	CEAS101M25
Q2601	2SK302	C305, C306 C301, C302, C311, C312	CEAS101M50 CEAS2R2M50
OILS AND FILTERS			
L2601	LAU221K	C381, C382	CEAS2R2M50
		C317 C320 C303, C304	CFTXA104J50
APACITORS		₩ww. ₩	CKCYB471K50
C2602	CCSQCH181J50	RESISTORS	
C2604	CCSQCH820J50	A R369, R370 (0.33Ω, 5W)	ACN-139
C2607	CEAL470M6R3 CKSQYB103K50	R333, R334	RD1/2PM392J
C2605 · C2603	CKSQYB103K50 CKSQYB473K50		RD1/4PMF101
C2003	CR5Q1B473R50	△ R355−R358	RD1/4PMF151
C2601, C2606	CKSQYF104Z25	△ R381−R384	RD1/4PMF222
, in the second		△ R313−R316	RD1/4PMF270
ESISTORS		△ R321−R324	RD1/4PMF511
All Resistors	RS1/10S	⊼ R329−R332	RD1/4PMF680
		⚠ R311, R312	RD1/4PMF821
THERS		▲ R351 – R354	RFA1/4PS470J
LED HOLDER (PLS)	AMR7040		
		△ R347 – R350, R363 – R366 △ R371, R372	RFA1/4PS4R7] RS2LMF100J
RF AMP ASSY		R397	RS2LMF104J
		Other Resistors	RD1/8PM
EMICONDUCTORS			,
IC2501	CXA1600P	OTHERS	
IC2502, IC2504	TC7SU04F	CABLE HOLDER (8P)	AKT1081
D2501 - D2503	1SS352	CN301 CONNECTOR (7P)	KPC7
OILS AND FILTERS		CN303 CONNECTOR (3P)	KPE3
L2501, L2502	LAU221K		
·		AMP ASSY 200W	
APACITORS		SEMICONDUCTORS	
TC2501	ACM7001		UPC4570C
C2520	CCSQCH150J50	IC201 Q203—Q206, Q213, Q214	2SA1145
C2514	CCSQCH681J50	Q203—Q200, Q213, Q214 Q281, Q282	2SC2240
C2501	CEAL100M6R3	Q201, Q202, Q207, Q208	2SC2705
C2508	CEAL101M6R3	Q211, Q212	2SC2705
C2503	CEAL2R2M35	D201 - D209 D212 D214	100000
C2504	CEALR10M50	D201 – D208, D213, D214 D219, D220, D281 – D286	1SS252 1SS252
C2507	CKSQYB103K50	D215-D218	MTZJ22D
C2513	CKSQYB104K25	D209-D212	MTZJ3.3
C2502, C2506	CKSQYB473K50		
ESISTORS		CAPACITORS	
All Resistors	RS1/10SCCJ	C285 (0.01µF/150V)	ACG1005
		C213-C216	CCCSL151K500
THERS		C207 – C210 C283, C284	CCCSL560K500 CEAS101M25
X2501 CERAMIC RESONATOR	ASS7005	C205, C206	CEASI01M25 CEAS101M50
		C201, C202, C211, C212	CEAS2R2M50
		C281, C282	CEAS2R2M50
			CFTXA104J50
		C217-C220	CF LAA 104150

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
RESIS	TORS				,	09, C1912, C1936, C1937	CEJA2R2M50
	VR201, VR2	202	VRTS6HS102		C1943		CEJA2R2M50
		(0.33Ω, 5W)	ACN7001		C1976, C19	93	CEJAR15M50
	R233, R234	(0.001, 011)	RD1/2PM562J		C1940	T. C1000 C1001	CEJAR22M50
	R295, R296		RD1/4PMF101J		C1972, C19	74, C1989, C1991	CEJAR47M50
	R221-R224		RD1/4PMF102J		C1041		CEJAR68M50
					C1941 C1932, C19	22 C1028	CFTYA103J50
	R255 - R258		RD1/4PMF151J			71, C1987, C1988	CFTYA104J50
	R213-R216		RD1/4PMF270J		C1978, C19		CFTYA154J50
	R243 - R246		RD1/4PMF271J		C1918, C19		CFTYA184J50
	R251-R254		RD1/4PMF470J		01310, 013		OI I IIIIOIJOO
	R229 - R232	2	RD1/4PMF680J		C1939		CFTYA333J50
	Date - Date		DD1/4D34D3011		C1968		CFTYA474J50
	R211, R212		RD1/4PMF821J RD1/4PMFL222J		C1959		CFTYA563J50
	R281 - R288		RF1/4PS101J		C1950, C19	55-C1958, C1998	CFTYA823J50
	R239 - R242	2 ), R259—R266	RF1/4PS4R7J		C1917, C19	52, C1963, C2009 – C2011	CKSQYB104K25
	R235, R236		RN1/4PC3001F				
	1233, 1230		14(1) 11 000011		C2015, C20		CKSQYB473K25
	R237, R238		RN1/4PC8200F		C1922, C193	23	CQMA102J50
	R271, R272		RS2LMF100J		C2004		CQMA222J50
	Other Resist		RD1/8PM□□□J		C1979		CQMA223J50
	Outer record		, , , , , , , , , , , , , , , , , , , ,		C1944, C19	45, C1949	CQMA332J50
OTHE	RS					20	00111000770
_ · · · I II	–	ABLE HOLDER (8P)	AKT1081		C1928, C19	29	CQMA362J50
		205 4P PLUG	KM200IA4		C1980		CQMA473J50
		ONNECTOR (4P)	KPE4		C1964		CQMA681J50
		ONNECTOR (5P)	KPE5		C1924, C19	25	CQMA682J50
	CN201 C	SNINDCT OR (SI)	111 200		C2001		CQMA822J50
201	PRO. MO	D 1020			C2002		CQPA221J100
				DECIC	TORC		
SEMIC	CONDUCTO	ORS		RESIS			
	IC1908		LA2785		All Resistor	S	RS1/10S□□□J
	IC1901-IC	1906	NJM4558M-D				
	IC1907		PMC001A	OTHE			
	IC1909		TC74HC193AF			ERAMIC RESONATOR	ASS1109
	Q1904		2SC2712		CN2001 15	SP SOCKET	KP200IB15L
	Q1901		2SD468				
	Q1902, Q19	กร	2SK208				
		04-D1906, D1908, D1909	1SS226				
	D1903	21000, 21000, 2100	1SS352				
	D1910		RD5.1M-B2				
	D1901		RD9.1M-B3				
COILS	S AND FILT	TERS					
	F1901		ATF1102				
	L1901		LCTA330J3225				
CAPA	CITORS						
	C1951-C19	954 (0.082μF/25V)	ACG1050				
	C2017, C20		CCSQCH100D50			•	
	C1901-C1		CCSQCH101J50				
	C2000		CCSQCH181J50				
	C2013, C20	14	CCSQCH300J50				
						_	
	C1977, C19	94	CEANL3R3M50				
		75, C1990, C1992	CEANLAR7M50				
	C2006		CEANP330M25				
		967	CEAS100M50				
	C1965-C1		CEAS101M10				
	C1965 – C19 C2008						
	C2008	ar.	CDACIOINA				
	C2008 C1904, C19	905	CEAS101M16				
	C2008 C1904, C19 C1948		CEAS221M10				
	C2008 C1904, C19 C1948 C1916, C19	905 947, C1981, C1986	CEAS221M10 CEAS221M16				
	C2008 C1904, C19 C1948 C1916, C19 C2007	947, C1981, C1986	CEAS221M10 CEAS221M16 CEAS330M35				
	C2008 C1904, C19 C1948 C1916, C19 C2007		CEAS221M10 CEAS221M16				
	C2008 C1904, C19 C1948 C1916, C19 C2007 C1915, C19	947, C1981, C1986	CEAS221M10 CEAS221M16 CEAS330M35 CEAS470M16				
	C2008 C1904, C19 C1948 C1916, C19 C2007 C1915, C19 C2012	147, C1981, C1986 146, C1960, C1961, C1969	CEAS221M10 CEAS221M16 CEAS330M35 CEAS470M16 CEJA010M50				
	C2008 C1904, C19 C1948 C1916, C19 C2007 C1915, C19 C2012 C1908, C19	147, C1981, C1986 146, C1960, C1961, C1969 111, C1914, C1920, C1921	CEAS221M10 CEAS221M16 CEAS330M35 CEAS470M16 CEJA010M50 CEJA100M16				
	C2008 C1904, C19 C1948 C1916, C19 C2007 C1915, C19 C2012 C1908, C19 C1926, C19	947, C1981, C1986 946, C1960, C1961, C1969 911, C1914, C1920, C1921 927, C1930, C1931, C1942	CEAS221M10 CEAS221M16 CEAS330M35 CEAS470M16 CEJA010M50 CEJA100M16 CEJA100M16				
	C2008 C1904, C19 C1948 C1916, C19 C2007 C1915, C19 C2012 C1908, C19 C1926, C19	947, C1981, C1986 946, C1960, C1961, C1969 911, C1914, C1920, C1921 927, C1930, C1931, C1942 985, C1996, C1997, C1999	CEAS221M10 CEAS221M16 CEAS330M35 CEAS470M16 CEJA010M50 CEJA100M16				

# 5. DISASSEMBLY

# 5.1 HOW TO REMOVE THE PCB ASSY





#### TUNER Assy

- 1. Remove the capacitor (C400) (chassis side).
- 2. Remove the rivet, and then remove the screw ③ from the rear panel side.

#### AUDIO FUNCTION Assy, A/V FUNCTION Assy, VIDEO FUNCTION Assy and S+SR, MR, IR Assy

- 1. Remove the screws ② to ⑧ from the rear panel side.
- Pull the rear panel towards you, and remove the pin jacks of the PCB assemblies from the pin jack holes of the rear panel.
- 3. Raise each PCB assembly to remove it.
- 4. When removal is difficult even after the screws ② to ⑧ have been removed, also remove the screws ⑨ and ⑩.

#### CONNECTION Assy

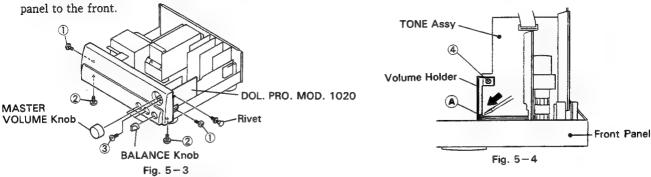
- After removal of the capacitor (C400), remove the screws
   to <a>®</a>. When removal is difficult even after the screws
   to <a>®</a> have been removed, also remove the screws <a>®
   and <a>®
- 2. Remove the rivet and screw 1.
- 3. Remove the CONNECTION assy from the PCB holder.

#### **5.2 FRONT PANEL SECTION**

- 1. Remove the BALANCE knob.
- 2. Remove the screws ① fixing both front panel L/R sides and the screw ② fixing the front panel bottom side.
- 3. Remove the rivet and remove the DOL. PRO. MOD. 1020 PCB.
- 4. Remove the MASTER VOLUME knob and screw ③.
- 5. Remove the screw ④ and then remove the volume holder.

  The volume holder can be removed by pressing the hook part ⑥ of the front panel with a screwdriver to disengage the lock. (Refer to Fig. 5-4)

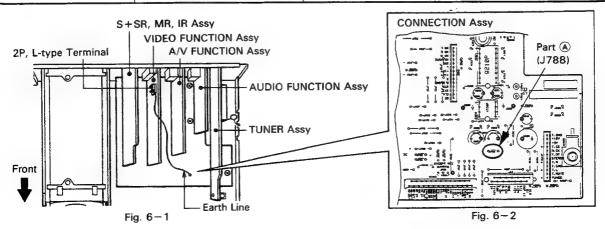
6. Press the hook at the bottom side of the front panel to disengage the lock with the chassis, and quietly pull the front



# 6. PCB ASSY DIAGNOSIS

For diagnosis of the standing PCB assemblies of Fig. 5-1, diagnosis can be executed when one of the following PCB assemblies is removed.

PCB assy to be diagnosed	PCB assy which may be removed from the CONNECTION assy	Remarks					
AUDIO FUNCTION Assy	VIDEO FUNCTION Assy     S+SR, MR, IR Assy	• The AUDIO FUNCTION assy and the A/V FUNCTION assy operate as a pair. When either one is removed, no operation is executed.					
A/V FUNCTION Assy	• TUNER Assy	• When the VIDEO FUNCTION assy and the S+SR, MR, IR assy removed from the CONNECTION assy, the earth (ADG) line is int rupted, so that a separate single wire must be prepared and the earline must be connected. Connect the 2P, L-type terminal of the VID FUNCTION assy and part ♠ of the CONNECTION assy with a sin wire. (Refer to Figs. 6−1 and 6−2)					
VIDEO FUNCTION Assy	AUDIO FUNCTION Assy     A/V FUNCTION Assy	• The VIDEO FUNCTION assy and the S+SR, MR, IR assy operate as a pair. When either one is removed, no operation is executed.					
S+SR, MR, IR Assy	• TUNER Assy	As the earth (GND) for the AUDIO FUNCTION Assy and the FUNCTION Assy is connected by a single wire, please do not dinect the single wire. Please use an extension wire when the single is removed.					
TUNER Assy	All PCB assemblies other than the TUNER Assy	TUNER Assy operates by itself.					



# 7. ADJUSTMENTS

# 7.1 TUNER SECTION

1. Wiring ..... Connect the wires as shown in Fig. 7-1-1 (FM ANT. terminal:  $75\Omega$ ).

2. Preset ..... Set the VR451 to center position.

3. When the SD model is used, set the band select switch to AM: 10kHz/FM: 100kHz.

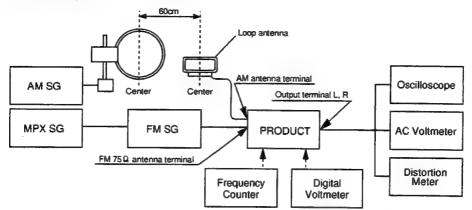


Fig. 7-1-1 AM and FM adjustment wiring diagram

#### **FM Section**

Note : Stereo modulation ; Main 1kHz  $L+R \pm 68.25kHz$ Pilot  $19kHz\pm 6.75kHz$ 

			SSG		Receiving	Adjustment			
Order	Item	Frequency Modulation Level		Level	Frequency	Adjustment Location	Remarks		
1	Increasing front end sensitivity	98MHz		Weak Input	98MHz	L402, L404, T402	Set the voltage between terminal 43 and GND to maximum, and check that the practical sensitivity is as specified.		
2	Center adjustment	98MHz		60dBμV	98MHz	L431	Adjust the voltage between terminals 45 and 46 to $0\pm50 \text{mV}$ .		
3	Adjusting VCO		OFF	$60 \mathrm{dB} \mu \mathrm{V}$		VR451	Adjust the output of terminal 44 to 76.0kHz±1.0kHz.		
4	Adjusting stereo distortion	98MHz	L-ONLY R-ONLY	$60\mathrm{dB}\mu\mathrm{V}$	98MHz	T402	Minimize the distortion within 1/4 rotation of the core, and check conformity to the specification.		
5	Checking lighting levels of TUNED and STEREO IND.	98MHz	STEREO	10dBμV (+1dB)	98MHz	VR432	Adjust TUNED and STEREO IND. to start lighting.		

#### **AM Section**

			SSG		Pecciving	Adjustment		
Order	Item	Frequency	Modulation	Level	Receiving Frequency	Adjustment Location	Remarks	
1	Adjusting lighting level of TUNED IND.	1000kHz			1000kHz	VR431	Adjust the lighting level of TUNED IND. to $55dB\mu V/m \pm 3dB$ .	

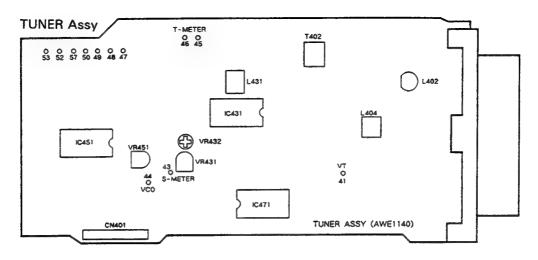


Fig. 7-1-2 Adjustment Points

# 7.2 IDLE CURRENT ADJUSTMENT

- Connect a DC voltmeter to CN205 and CN204 of the AMP ASSY 200W.
  - L ch: Between pins 1 ans 2 and between pins 3 and 4 of CN205
  - R ch: Between pins 1 and 2 and between pins 3 and 4 of CN204
- 2. Turn VR201 (L ch) and VR202 (R ch) all the way to the left.
- Switch on the power when the set is completely cold. At the time, bring the SPEAKERS terminals to no-load condition.
- 4. Wait 5 minutes, and then turn VR201 (L ch) and VR202 (R ch) to the right to set the voltage to 1 mV  $^{+1mV}_{-0.5mV}$  each.

Note: As the tempetature rises with the passage of time, adjustment should be executed quickly.

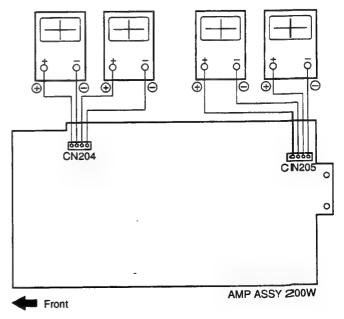
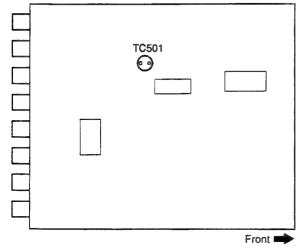


Fig. 7-2-1 Idle Current Adjustment

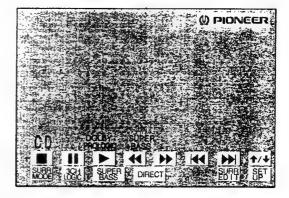
#### 7.3 GUI SCREEN DISPLAY POSITION ADJUSTMENT

- 1. Connect a monitor TV to the VIDEO OUT terminal.
- 2. Switch on the power supply.
- 3. Set the function to CD.
- 4. Press the GUI MODE key switch to GUI mode (screen 1).
- 5. Use the MULTI-JOG dial to move the mark (cursor) on the screen to the key on the screen.
- 6. Press the GUI ENTER key. (The condition of the screen 2 will be reached.)
- 7. While screen 2 is being displayed (it goes out after about 10 to 15 sec.), adjust with TC501 of the VIDEO FUNC-TION assy so that the margin on the screen becomes the same on the left and the right.

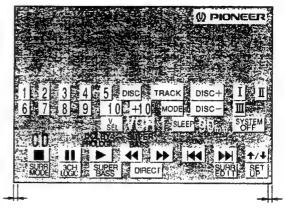
Note: When the GUI screen goes out, it can be displayed again by turning the MULTI-JOG dial.



**VIDEO FUNCTION ASSY** 



Screen 1

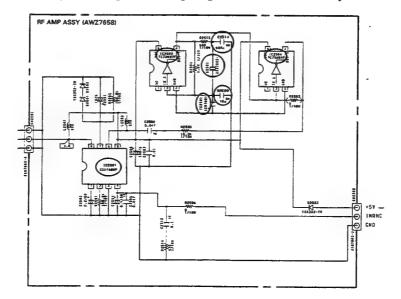


Adjust for the same margin at the left and the right.

Screen 2

## 7.4 REGARD TO PARTIAL EXCHANGE OF THE RF AMP ASSY

For exchange of the part marked by \(\circ\) in Fig. 1, exchange together with the PCB assy.



# 8. IC INFORMATION

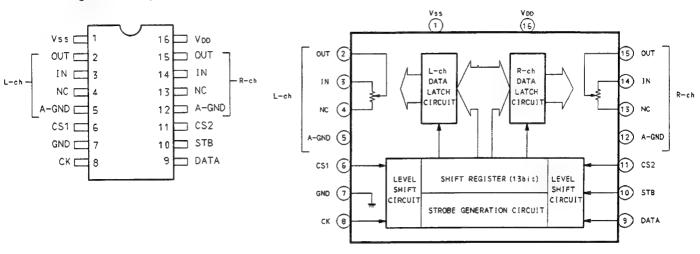
 The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

# TC9210P (IC621: CONNECTION ASSY) (VSX-79 ONLY)

# ● Electronic Volume IC

• Pin Assignment (Top View)





#### Pin Function

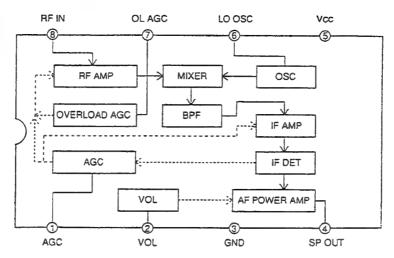
No.	Symbol	Pin Name	Description
1	Vss	Power supply (-)	$V_{DD} = 6.0 \text{ to } -17V$ 2 Used power supply $GND = 0V$
7	GND	Digital GND	$V_{SS} = -6.0 \text{ to } -17V$ $V_{DD} = 6.0 \text{ to } 18V$
16	Vdd	Power supply (+)	1 Used power supply GND = Vss = 0V
2	L-OUT	Volume output	<del></del>
3	L-IN	Volume input	
4	NC	NO CONNECTION	
5	L-A-GND	Analog GND	
6	CS1	Chip select input	The chip selection code is switched, and up to four units can be used at the same time.
8	CK	Clock input	Data transfer clock input
9	DATA	Data input	Serial data input for volume setting
10	STB	Strobe input	Strobe input for data writing
11	CS2	Chip select input	The chip selection code is switched, and up to four units can be used at the same time.
12	R-A-GND	Analog GND	
13	NC	NO CONNECTION	
14	R-IN	Volume input	
15	R-OUT	Volume output	

# CXA1600P (IC2501: RF AMP ASSY)

CXA1600P is a 1-chip AM radio combining a power amplifier and an electronic volume adjustment in an 8-pin package, and it includes all functions from the front end to the power amplifier.

# ● 8-pin, 1-Chip Radio

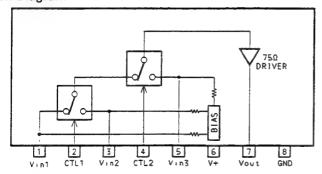
Block Diagram



# NJM2243L [IC508, IC509 (VSX-79 ONLY): VIDEO FUNCTION ASSY]

#### Video Switch

Block Diagram



NJM2243L	INPUT CONTROL-OUTPUT SIGNAL				
CTL1	CTL2	OUTPUT SIGNAL			
L	L	Vin1			
Н	L	Vin2			
L/H	Н	Vin3			

# ■ PD6157A

(IC506: VIDEO FUNCTION ASSY)

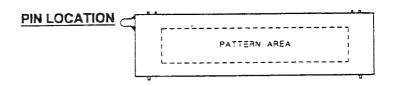
# ON-Screen Display Controller

Block Diagram

-00		
28		AVss
27		YOUT
26		COUT
25		VOUT
24		ĊS
23		SIN
22		SCLK
21		TEST
20	$\vdash$	VOC0
19		VOC1
18		VOC2
17		VOB
16	$\vdash$	XD
15	$\models$	EXD
	27 26 25 24 23 22 21 20 19 18 17	27   26   25   24   23   22   21   20   19   18   17   16   16   16   16   16   16   16

# 9. FL INFORMATION

**AAV1196 (V701)** 

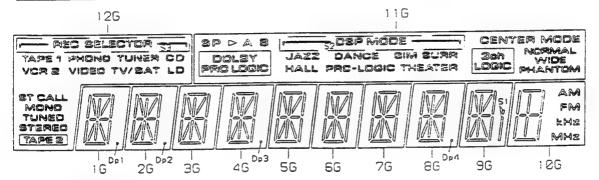


#### PIN CONNECTION

PIN NO.	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
CONNECTION	FENN 123456789012NNNNNNNNNNN11111111PPPPPPPPPNNFF

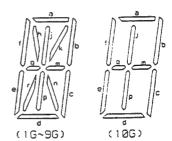
NOTE 1) Fi.F2 --- Fi@ament 2) NP ----- No pin 3) NX ----- No extend pin 4) DL ----- Datum Line 5) 1G~12G --- Grid

### GRID ASSIGNMENT



#### ANODE CONNECTION

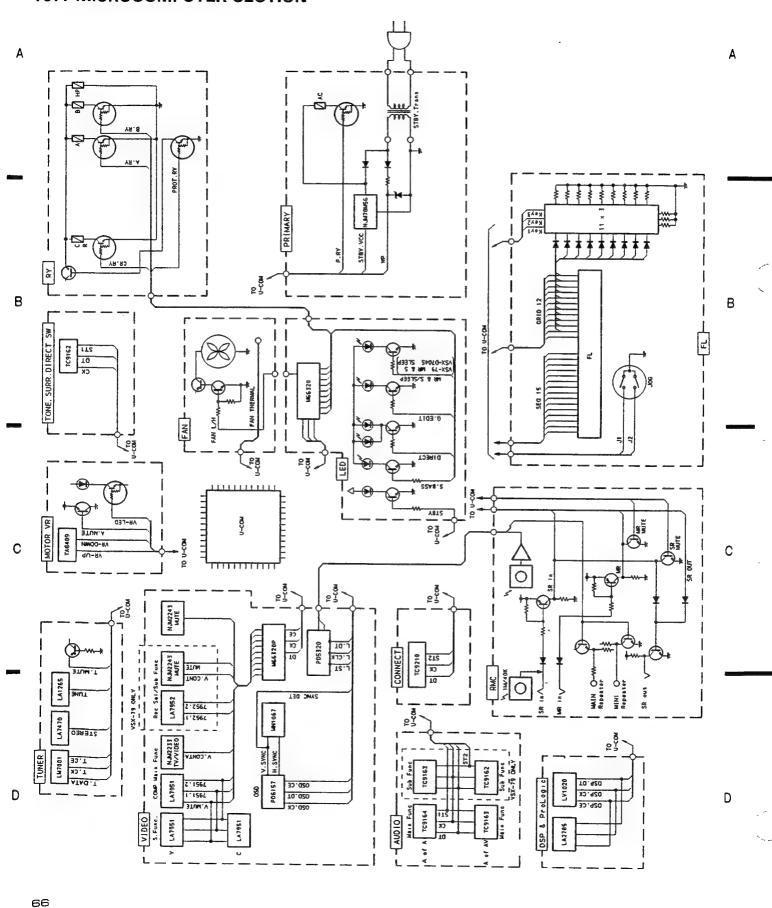
_								_					
7		16	26	36	46	SG	66	75	83	96	100	116	12G
ρ	1	a	å	a	a	à	a	aj	â	a	a	PHANTOM	ST CALL
n	2	j	j	j	J	ړ	j	;	j	j	j	OCLBY PRC LOGIC	MONE
a	3	ķ	k	k	k	k	k	ų	k	k	AM	WIDE	10
P	۵	h	h	מ	ب	ņ	ņ	5	ъ	h	FM	NOPMAL	TY/BAT
P	5	t)	ь	ъ	a	б	5	٥	5	מ	5	TOGIC 30h	VIDES
P	6	1	f	1	f	1	1	1	,	1	f	Center Mode	VCR 2
ρ	7	S	ş	S	g	ç	ş	3	9	ş	9	PRO-LOGIC THEATER	-
ρ	8	m	m	m	m	n	n	e	6	п	m	HALL	03
P	9	c	ŧ	c	c	c	c	=	с	c	u	SIM SUPP	TUNER
Ρ	S	e	e	2	e	e	e	à	•	e	e	CANCE	PHONO
P	1 1	-	r	n	n	r	٥	c	n	n.	k#2	JAZZ	TAPE 1
P	12	,	,	,	r	,	,	,	*	,	21ايوا	57 A	משאנד
P	13	þ	p	۵	2	۵	s	5	þ	٥	a	A	STERED
P	14	c	đ	z	e	c	2	2	ē	đ	2	8	TAPE 2
Ρ	15	001	Ds2	-	Dp3	-	-	-	Dp4	s:	-	S2	53



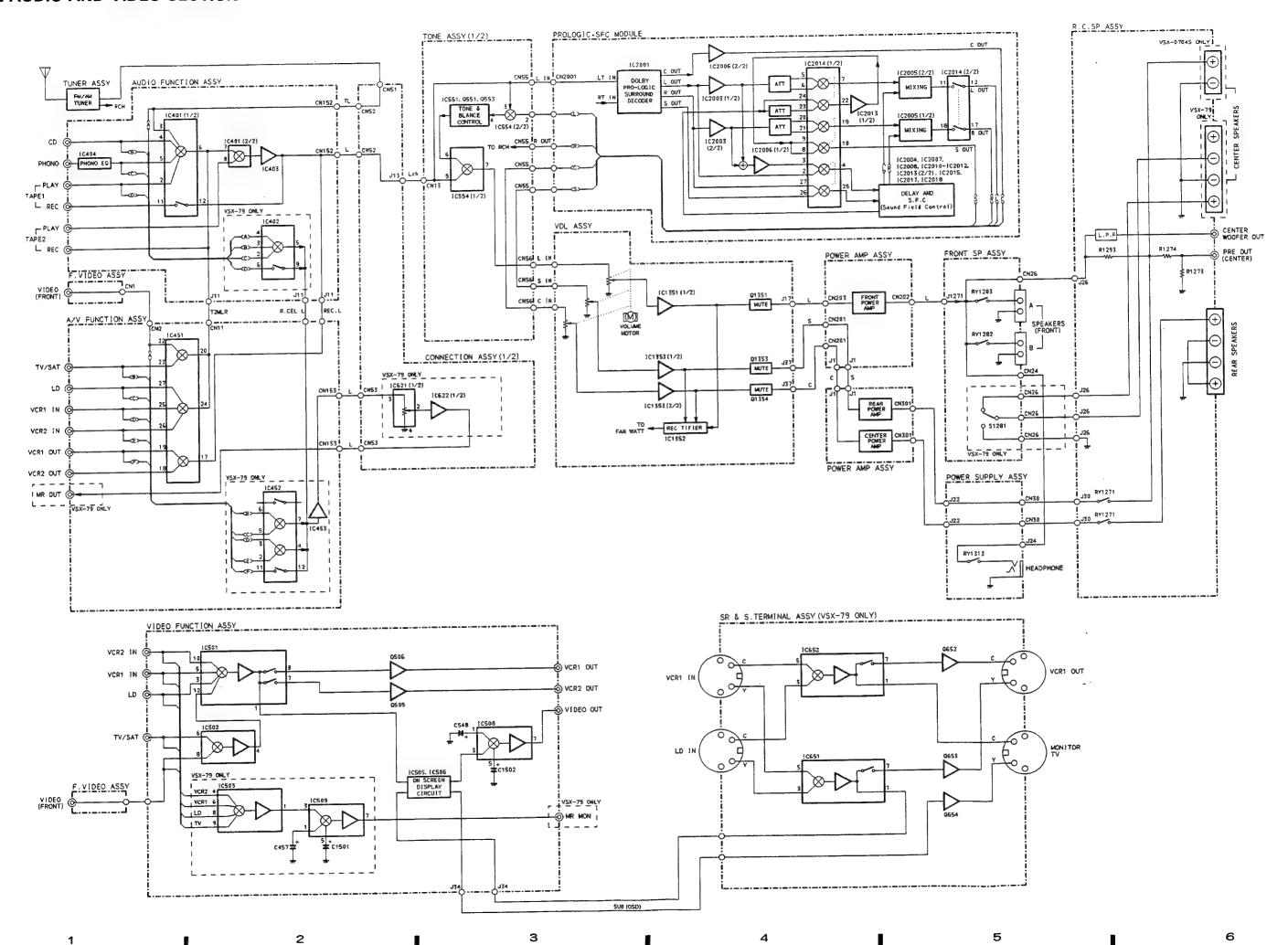
3

# 10. BLOCK DIAGRAM

# 10.1 MICROCOMPUTER SECTION



2



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# 11. FOR VSX-D704S/KC, SD AND VSX-79/KU/CA

#### NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "©" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
  - Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

$560\Omega \rightarrow 56 \times 10^{1} \rightarrow 561$	RD1/8PM 5 6 1 J
$47k\Omega \rightarrow 47 \times 10^3 \rightarrow 473$	RD1/4PS 4 7 3 J
$0.5\Omega \rightarrow 0R5$	RN2H 0 R 5 $K$
$1Q \rightarrow 010$	RS1P 0 1 0 $K$

# CONTRAST OF MISCELLANEOUS PARTS

VSX-D704S/KC, SD, VSX-79/KU/CA and VSX-D704S/KU have the same construction except for the following :

Mark	Symbol & Description	rmbol & Description VSX-D704S/ VSX-D704S/ KU KC		VSX-D704S/ SD	VSX - 79/ KU/CA	Remarks
	BIC SIGNAL assy	AWK7136	AWK7136	AWK7137	AWK7138	
	REG. assy	AWZ7617	AWZ7617	AWZ7617	AWZ7618	
	PRIM assy	AWZ7620	AWZ7620	AWZ7621	AWZ7620	
NSP	FRONT SP. assy	AWZ7623	AWZ7623	AWZ7623	AWZ7624	
NSP	R.C SP. assy	AWZ7626	AWZ7626	AWZ7626	AWZ7627	
	CONNECTION assy	AWZ7630	AWZ7630	AWZ7630	AWZ7631	
	SMALL SIGNAL assy	AWK7143	AWK7143	AWK7143	AWK7144	
	AUDIO FUNCTION assy	AWZ7634	AWZ7634	AWZ7634	AWZ7635	
	A/V FUNCTION assy	AWZ7636	AWZ7636	AWZ7636	AWZ7637	
	VIDEO FUNCTION assy	AWZ7638	AWZ7638	AWZ7638	AWZ7639	
	S+SR, MR, IR assy	AWZ7645	AWZ7645	AWZ7645	AWZ7646	
	FRONT assy	AWK7148	AWK7148	AWK7148	AWK7149	
	FL UCOM assy	AWZ7649	AWZ7649	AWZ7649	AWZ7650	
$\triangle$	S1 Voltage selector	Not used	Not used	AKX-507	Not used	*
$\triangle$	S2 Voltage selector	Not used	Not used	AKX1004	Not used	*
	S3 Slide switch (for channel step)	Not used	Not used	ASH1044	Not used	*
	S4 Slide switch (PAL ↔ NTSC)	Not used	Not used	ASH1044	Not used	*
$\triangle$	T1 Power transformer (AC120V)	ATS7058	ATS7058	Not used	ATS7058	
$\triangle$	T1 Power transformer (AC110V/120-127V/220V/240V)	Not used	Not used	ATS7059	Not used	
$\triangle$	C1 Capacitor (0.1µF/250V)	Not used	Not used	ACE -507	Not used	*
$\triangle$	C2, C3 Capacitor	Not used	Not used	CKDYX103M25	Not used	*
$\triangle$	C4 Capacitor	Not used	Not used	CEAS100M50	Not used	*
$\triangle$	FU1 Fuse (10A/125V)	AEK1035	AEK1035	Not used	AEK1035	
$\triangle$	FU1, FU2 Fuse (5A/125V)	Not used	Not used	AEK-126	Not used	
$\triangle$	Fuse holder	Not used	Not used	AKR1005	Not used	
⚠	AC power cord	ADG1146	ADG1146	ADG1051	ADG1146	
	Strain relief	AEP-113	AEP-113	AEC-882	AEP-113	
	Rear panel	ANC7194	ANC7194	ANC7195	ANC7196	
	Display panel	AAK7147	AAK7147	AAK7147	AAK7148	

Note \*: Refer to pages 5-7.

Mark	Symbol & Description	VSX-D704S/ KU	VSX-D704S/ KC	VSX-D704S/ SD	VSX-79/ KU/CA	Remarks
	Center panel	AAK7152	AAK7152	AAK7152	AAK7151	
1	Front panel	AMB7209	AMB7209	AMB7209	AMB7210	
NSP	Fuse holder bracket	Not used	Not used	ANG-528	Not used	*
NSP	Barrier (PVC)	Not used	Not used	AEC1412	Not used	*
	65 label	ORW1069	Not used	Not used	ORW1069	
	Screw (for slide switch)	Not used	Not used	VMZ26P040FZK	Not used	*
ŀ	Packing case	AHD7138	AHD7138	AHD7139	AHD7140	
	Operating instructions (English)	ARB7035	ARB7035	ARB7035	ARB7036	
ĺ	Operating instructions (French)	Not used	ARC7058	Not used	Not used	
ł	Operating instructions (Chinese/Spanish)	Not used	Not used	ARC7059	Not used	

Note \*: Refer to pages 5-7.

# **CONTRAST OF PCB ASSEMBLIES**

## REG. Assy

AWZ7618 and AWZ7617 have the same construction except for the following:

B41	Sumbal 9 Bassinting	Par	t No.	Remarks
Mark	Symbol & Description	AWZ7617	AWZ7618	Remarks
	R1254, R1255, R1280	RS2LMF180J	Not used	
	R1256	RD1/4PMF122J	RD1/4PMF751J	
	R1264	Not used	RT5PZ680K	*
	R1299	Not used	RT5PD100K	*

Note ★: Refer to SCH-8.

#### A/V FUNCTION Assy

AWZ7637 and AWZ7636 have the same construction except for the following:

D. C. L.	0	Pa	rt No.	Remarks
Mark	Symbol & Description	AWZ7636	AWZ7637	nemarks
	IC452	Not used	TC9162AN -	*
	IC453	Not used	XRA4558N-P	*
	Q451	Not used	XDA124ES	*
	Q452, Q453	Not used	2SC2878	*
	C477, C478	Not used	CKSQYB103K50	*
	C479, C480	Not used	CEAS2R2M50	*
	C485, C486	Not used	CEAS4R7M50	*
	C488	Not used	CCSQCH102J50	*
	C492, C493	Not used	CCSQCH101J50	*
	R471, R486-R488	Not used	RS1/10S102J	*
	R472, R473, R481, R482	Not used	RS1/10S222J	*
	R475-R478	Not used	RS1/10S104J	*
	R479, R480	Not used	RS1/10S224J	*
	2P Pin jack	Not used	AKB7019	*
	CN153	KP200IB10L	Not used	
	CN153	Not used	KP200IB14L	*

Note  $\star$ : Refer to SCH-2.

# **PRIM Assy**

AWZ7621 and AWZ7620 have the same construction except for the following:

		Part	No.	Remarks
Mark	Symbol & Description	AWZ7620	AWZ7621	Remarks
NSP	T51 R52 KN51	ATT7006 ACN-208 ANK-142	ATT7007 Not used Not used	

## FRONT SP. Assy

AWZ7624 and AWZ7623 have the same construction except for the following:

		Part	No.	Remarks
Mark	Symbol & Description	AWZ7623	AWZ7624	nemarks
	S1281 CN26 Connector (4P) CN26 Connector (7P) CN8004 Speaker terminal 8-P	Not used KPC4 Not used AKE1048	AKX1033 Not used KPC7 AKE1036	*

Note ★: Refer to SCH-5.

## **VIDEO FUNCTION Assy**

AWZ7639 and AWZ7638 have the same construction except for the following:

	Combal & Danaistics	Pa	rt No.	Remarks
Mark	Symbol & Description	AWZ7638	AWZ7639	Remarks
	IC503	Not used	LA7952	*
	IC509	Not used	NJM2243L	*
	IC511	Not used	TC7S32F	*
	Q502	Not used	2SC2458	*
	Q503	Not used	2SA1115	*
	D504	Not used	HSS104-02	*
	L503, L505, L509	Not used	LAU680J	*
	C507-C511, C543, C547, C1501	Not used	CEAS470M25	*
	C512, C545	Not used	CKSQYF103Z50	*
	C524	Not used	CCSQCH561J50	*
	C535, C1513	Not used	CEAS100M50	*
	C538	Not used	CEAS010M50	*
	C549	Not used	CEANP470M25	*
	C1509	Not used	CEAS471M10	*
	R510, R511, R535, R1503	Not used	RS1/10S102J	*
	R529	Not used	RS1/10S681J	*
,	R530	Not used	RS1/10S222J	*
	R531, R1504	Not used	RS1/10S104J	*
	R533	Not used	RS1/10S391J	*
	R542	Not used	RS1/10S103J	*
	R546	Not used	RS1/10S750J	*
	R1506	Not used	RS1/10S472J	*
	1P Pin jack	Not used	AKB7020	*
	CN154	KP200IB11L	Not used	
	CN154	Not used	KP200IB15L	*

Note ★: Refer to SCH-4.

## **CONNECTION Assy**

AWZ7631 and AWZ7630 have the same construction except for the following:

Mark	Symbol & Description	Par	t No.	
IVIAIR	Cymbol & Description	AWZ7630	AWZ7631	Remarks
	IC621	Not used	TC9210P	*
	IC622	Not used	XRA4558	*
	D621, D622	Not used	HSS104-02	*
	C621, C622, C627, C628	Not used	CEAS100M50	*
1	C629, C630	Not used	CEAS470M25	*
ļ	C631, C632	Not used	CKCYF103Z50	*
	C633, C634	Not used	CKCYF473Z50	*
	C635, C636	Not used	CKCYB102K50	*
	R625, R626, R631, R632	Not used	RD1/8PM104J	*
	R633, R634	Not used	RD1/2PM221J	*
	R635 - R637	Not used	RD1/8PM102J	*
ļ	CN53 10P Plug	KM200IB10	Not used	
Ì	CN53 14P Plug	Not used	KM200IB14	
	CN54 11P Plug	KM200IB11	Not used	
	CN54 15P Plug	Not used	KM200IB15	
	CN56 8P Plug	KM200IB8	Not used	
	CN56 16P Plug	Not used	KM200IB16	

Note ★: Refer to SCH-5.

# R.C SP. Assy

AWZ7627 and AWZ7626 have the same construction except for the following:

Mark	Company Pagarintian	Part	No.	
IVIAIR	Symbol & Description	AWZ7626	AWZ7627	- Remarks
	Cable holder (4P) Cable holder (7P) CN8016 Speaker terminal 2-P CN8016 Speaker terminal 4-P	AKT1077 Not used AKE1041 Not used	Not used AKT1080 Not used AKE1055	*

Note ★: Refer to SCH-5.

## **AUDIO FUNCTION Assy**

AWZ7635 and AWZ7634 have the same construction except for the following:

Mark	Symbol & Description	Par	t No.		
Widik		AWZ7634	AWZ7635	Remarks	
	IC402	Not used	TC9163AN	*	
	C437, C438	Not used	CKSQYF103Z50	*	
	C448	Not used	CCSQCH102J50	*	
	R444	Not used	RS1/10S102J	*	
	6P Pin jack	AKB7013	Not used		
	4P Pin jack	Not used	AKB7014	*	
	2P Pin jack	Not used	AKB7019	*	

Note ★: Refer to SCH-2.

# FL UCOM Assy

 $\overset{\cdot}{\text{AWZ7650}}$  and  $\overset{\cdot}{\text{AWZ7649}}$  have the same construction except for the following :

		Part	Remarks	
Mark	Symbol & Description	AWZ7649	AWZ7650	Nemarks
	D732	Not used	HSS104-02	*

Note ★: Refer to SCH-11.

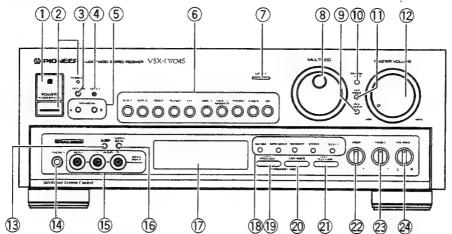
# PCB PARTS LIST

Mark No.	Description	Parts No.	Mark	No.	Description	Parts No.
S+SR. MR.	R ASSY (AWZ7646)		OTHE	RS		
SEMICONDUC				CN1001	TACK	AKN-209
					JACK	AKN1020
IC651, IC	652	LA7951	N T	CN1002		AKN1028
IC658		LH5268AN1T	LL		CN1006 SOCKET	AKP1064
IC657		PD5320A TC74HC123A	T.	X651	CERAMIC RESONATOR	ASS1025
IC656	FF 0000	2SA1048	ır.			
Q656, Q6	57, <b>Q</b> 660	45A1040			JACK	BKN1005
0050 0	CE 4	2SA1115		CN156	16P SOCKET	KP200IB16I
Q652 - Q		2SC2458		CN159	9P SOCKET	KP200IB9L
Q655, Q6	59, Q662, Q663	2SC3732				
Q661, Q6	64	XDC124ES				
D666	O-1	1SS252				
D000		100202				
D651 - D	653, D655-D658	HSS104-02				
D660-D		HSS104-02				
D659		RD3.0ESB1				
D654		RD5.1ESB				
COILS AND F	LTERS					
L659		LAU220K				
	54, L656-L658	LAU820J				
D033, D0	04, L000 L000	21100203				
CAPACITORS						
C692		ACH1246				
C681 - C	683	CCSQCH0500	C50			
C684, C6		CEAS010M50	)			
	56, C665, C671	CEAS100M5	)			
C690		CEAS101M1	0			
0000 0	200	CEAS101M2	5			
C668, C6	663, C677 – C679, C693	CEAS470M2				
C1651, C		CEAS471M1			•	
	89, C696, C697	CKSQYB102				
C698	163, C030, C031	CEAS1R5M5				
C1656		CKSQYB822			-	
	667, C673 – C675, C691	CKSQYF103				
	660, C664, C670	CKSQYF1042				
C694, C	95	CKSQYF473	250			
RESISTORS						
R674		RD1/2PM22	IJ			
R672, R	573	RD1/2PM33	-			
R657		RD1/8PM103				
_	esistors	RS1/10S□□				

# 12. PANEL FACILITIES

Illustration shows multi-voltage model.

VSX-D704S



## 1) Remote sensor

# 2 POWER STANDBY/ON switch,

# STANDBY indicator (Multi-voltage model only)

This is the switch for electric power.

ON : When set to the ON pos

: When set to the ON position, power is supplied

and the unit becomes operational.

STANDBY: When set to the STANDBY position, the main

power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

#### (Multi-voltage model only)

The STANDBY indicator lights when the power is set to STANDBY, and goes out when set to ON.

#### (Timer ON/OFF possible)

When the unit is switched ON, ON/OFF control can be performed by means of the optional timer.

#### NOTE:

When the power is initially turned ON, muting will be applied to prevent sound from being output for about 5 seconds.

#### **③ RETURN button**

Press this button to return the receiver to its initial state. TUNER is selected at this initial state. Adjust the sound level by using the MASTER VOLUME control.

TAPE 2 MONITOR OFF	MUTING OFF
SFC MODE OFF	
SUPER BASS OFF	

And SPEAKERS buttons switch as follows.

Before pressing the RETURN button		After pressing
Both A and B are off	<b>→</b>	Only A is on
Only A is on		No change
Only B is on	$\longrightarrow$	Both A and B are on
Both A and B are on		No change

#### NOTE:

Press the RETURN button, and the frequency last selected is received. If reception of the frequency last selected is not possible, the mode automatically switches to AUTO TUNING.

#### **4** RESET button

Use this when normal operation is not possible because of external influences such as static electricity or lightning, or when operations are not functioning even when operation buttons are pressed. Press this button to return to normal operating conditions.

(The input selector automatically switches to TUNER, and SPEAKERS button A is the only one ON.

Also, the tuner station memory, surround settings, and remote control REMOTE SET UP settings are all returned to their initial defaults.)

If you press this button when the power is ON, the unit switches to POWER STANDBY.

#### **(5)** SPEAKERS buttons (A,B)

ON/OFF switches for the A and B speaker systems.

# **6** Input selector buttons

VCR 1 : Press when performing playback on a first VCR unit.VCR 2 : Press when performing playback on a second VCR

unit.

VIDEO : Press when performing playback on a TV camera or VCR connected to VIDEO INPUT jack on the front

nanel

**TV/SAT**: Press to watch TV broadcasts from the TV tuner connected to the rear panel TV/SAT IN jacks.

: Press when performing playback on an LD player.

TAPE 1 : Press when performing playback on an a

cassette deck.

#### **TAPE 2 MONITOR**

: Press when performing playback on a second cassette deck and when monitoring recording.

TUNER: Press when playing records on a turntable.

: Press when listening to radio broadcasts.

CD: Press when playing compact discs on a CD player.

# 7 DIRECT button\*

Press this to listen to source sound without passing the audio signal through sound quality and balance adjusting circuitry. The surround mode, super bass, and rear and center speakers are automatically switched off.

#### **® MULTI-JOG**

Use during tuner operation to select frequencies and station numbers. During GUI operation, use to move the on-screen cursor.

#### (9) GUI ENTER button (GUI operation)

Press to execute an operation selected with the MULTI-JOG.

## 10 MUTING button

Press to temporarily cut off the sound volume. When pressed again, the sound will return to its previous level.

# **(i)** GUI MODE button

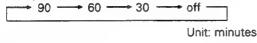
Switches GUI MODE on and off.

# **12 MASTER VOLUME control**

Use it to simultaneously adjust the sound volume from the front, center, and rear speakers.

#### **13 SLEEP button**

Activates the SLEEP timer. The length changes in the following manner each time the button is pressed:



# 14 PHONES jack

Connect the plug on your headphones to this jack. Set SPEAKERS A and B switches to OFF if you want to cut the sound from the speakers and listen to it only through the headphones.

# 15 VIDEO INPUT jacks

VIDEO components such as a VCR or TV camera, etc. can be connected.

#### 16 SUPER BASS button\*

Press this button when you want to boost the bass.

#### 17 Display section

#### 18 TUNING MODE buttons

#### FM/AM button:

Use this to switch between FM and AM frequency band reception.

#### MPX MODE button:

Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the MONO indicator in the display section is lit.

#### Auto stereo mode

Normally, leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo.

#### Monaural mode

When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

#### NOTE

This button has no effect on reception of AM broadcasts.

#### **MEMORY** button:

Press this button to switch to the frequency preset mode. (When GUI is ON, it does not operate.)

#### **ENTER button:**

Press this button when you are in the frequency preset mode, and the displayed frequency is memorized in the selected station. (Station indications stop flashing and stay lit.) (When GUI is ON, it does not operate.)

#### **SELECT** button:

Press this button to switch to the station mode. Then you can turn the multi-jog to select a station. (When GUI is ON, it does not operate.)

## 19 DOLBY PRO-LOGIC button\*

Switches DOLBY PRO-LOGIC SURROUND on and off.

# 20 DSP MODE button\*

Each time you press it, the mode and the display indications change as follows.

```
JAZZ → DANCE → SIMULATED SURROUND—
off ← PRO-LOGIC THEATER ← HALL ←
```

# ② DOLBY 3CH LOGIC button\*

Select this setting when stereo-source regeneration and rear speakers are not connected and you wish to use the front L, front R, and center speakers to enjoy audio/visual material bearing the DD DOLLY SURROUND mark.

#### 22 BASS control

Use to adjust the low-frequency level. Turn clockwise to boost bass, and counterclockwise to attenuate bass.

#### 23 TREBLE control

Use to adjust the high-frequency level. Turn clockwise to boost treble, and counterclockwise to attenuate treble.

#### **24 BALANCE control**

Use to adjust the sound volume balance between left and right speakers.

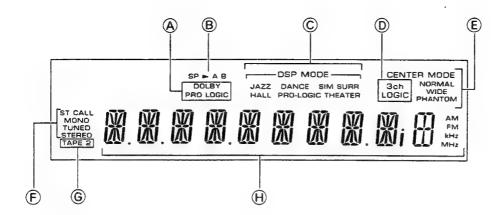
L: Decreases the sound on the right side.

R: Decreases the sound on the left side.

Usually, left and right volume levels should be the same.

\*Setting is memorized separately for each input selector button.

### **DISPLAY SECTION**



# **A DOLBY PRO-LOGIC indicator**

# **B SP (SPEAKERS) A,B indicators**

Shows which speaker system (or systems) are switched on.

#### © DSP MODE indicators

## **DOLBY 3CH LOGIC indicator**

## **E CENTER MODE indicators**

These display the center mode (NORMAL, WIDE, PHANTOM) during DOLBY PRO-LOGIC SURROUND, PRO-LOGIC THEATER and DOLBY 3CH LOGIC operation

# F Tuning indicators

ST (STATION) CALL

:Press the SELECT button to switch to the station mode, and this indicator lights.

MONO :Lights up when the FM MONO mode is

selected with the MPX MODE button.

\*\*TUNED\*\*: Lights up when a station is tuned.

STEREO :Lights up when a stereo FM broadcast is being

received.

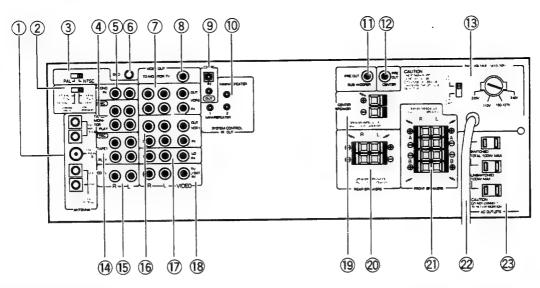
#### **© TAPE 2 indicator**

Lights up when the input selector is set to TAPE 2 MONITOR  $\,$  ON.

# (H) CHARACTER display

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby," the double-D symbol and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

Illustration shows Multi-voltage model.



# 1) FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.

# ② CHANNEL STEP switch (Multi-voltage model only)

# ③ PAL/NTSC switch (Multi-voltage model only)

Switch to match the color system of the TV set you are using.

# **4 TAPE 2 MONITOR jacks**

Connect to audio components such as a second cassette deck or a graphic equalizer.

# **(5) PHONO input jacks**

Connect to the output cables from a turntable.

#### **6** GND terminal

Connect the turntable ground lead to this terminal.

# 7 VCR 2 jacks

#### [VIDEO OUT]

Connect to the VCR 2 VIDEO INPUT jack.

#### [AUDIO OUT (L, R)]

Connect to the VCR 2 AUDIO INPUT jacks.

#### [VIDEO IN]

Connect to the VCR 2 VIDEO OUTPUT jack.

#### [AUDIO IN (L, R)]

Connect to the VCR 2 AUDIO OUTPUT jacks.

# **® VIDEO OUT (TO MONITOR TV) jack**

Connect to a monitor TV or to TV sets with video input terminals to watch program materials from a VCR or LD player connected to this unit.

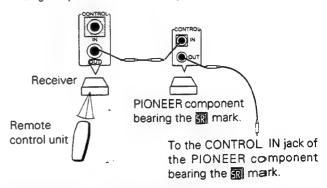
# **9 CONTROL IN/OUT jacks**

:Connect this jack to other Pioneer components when using those components to control this unit.

OUT :Connect this jack to other Pioneer components when using the remote control of this unit to control the other components.

#### NOTE:

- If there is a plug in this unit's CONTROL IN jack, GUI operation is not possible.
- The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected. In this case, connect a component featuring intelligent system control to the IN jack.



# (1) SYSTEM CONTROL IR OUT jacks

To operate other components with this unit's remote control or with GUI, connect the supplied repeater.

#### MINI-REPEATER 1, 2

:Connect the supplied Mini-Repeater.

#### MAIN-REPEATER

:Connect the supplied Main-Repeater.

# 1) SUB WOOFER PRE OUT jack

If you want to boost the low frequencies, connect to a subwoofer power amplifier.

# **12 CENTER PRE OUT jack**

When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

# (3) TWO VOLTAGE SELECTORS switches (Multi-voltage model only)

# (4) TAPE 1 jacks

Connect to the first cassette deck.

# (15) CD input jacks

Connect to the output jacks of a compact disc player.

## 16 VCR 1 jacks

#### [VIDEO OUT]

Connect to the VCR 1 VIDEO INPUT jack.

## [AUDIO OUT (L, R)]

Connect to the VCR 1 AUDIO INPUT jacks.

#### [VIDEO IN]

Connect to the VCR 1 VIDEO OUTPUT jack.

#### [AUDIO IN (L, R)]

Connect to the VCR 1 AUDIO OUTPUT jacks.

#### 17 LD input jacks

Connect to an LD player's output jacks (audio, video).

#### 18 TV/SAT (Satellite) jacks (input)

Use these jacks if you wish to connect a TV tuner with both video and audio outputs.

#### 19 CENTER SPEAKER terminals

Connect the center speaker to these terminals.

#### NOTE :

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use a center speaker with an impedance of 8  $\Omega$  to 16  $\Omega$ .

#### 20 REAR SPEAKERS terminals

Connect the rear speakers to these terminals. **NOTE:** 

- Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use rear speakers with an impedance of 8  $\Omega$  to 16  $\Omega$ .
- Be sure to connect two speakers (L, R). There will be no sound if only one speaker is connected.

#### 2) FRONT SPEAKERS terminals

A :Connect to the first set of speakers.

**B** :Connect to the second set of speakers.

#### NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use front speakers with an impedance of 8  $\Omega$  to 16  $\Omega$ .

# 22 Power cord

#### **23 AC OUTLETS**

(U.S. and Canadian models)

# (SWITCHED TOTAL 100 W (0.8 A) MAX)

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).

#### (UNSWITCHED 100 W (0.8 A) MAX)

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A).

#### (Multi-voltage model)

#### (SWITCHED TOTAL 100 W MAX)

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W.

## (UNSWITCHED 100 W MAX)

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W.

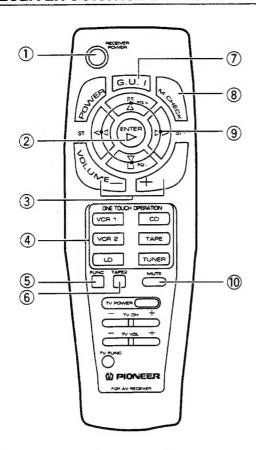
#### NOTE:

- This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.
- Do not connect appliances with high power consumption such as heaters, irons, or television sets to this AC OUTLETS in order to avoid overheating and fire risk. This can cause the receiver to malfunction.

### CAUTION:

DO NOT CONNECT MONITOR OR TV SET.

#### RECEIVER CONTROL BUTTONS



#### **1) RECEIVER POWER button**

Switches the receiver power between ON and STANDBY.

#### 2 ENTER button

When GUI is ON, press to execute an operation selected with the Select/Adjust buttons.

# 3 **VOLUME** + , - buttons

Adjusts the overall volume

#### **4 ONE TOUCH OPERATION buttons**

VCR 1/2, CD, LD, TAPE:

Pressing these buttons automatically calls up "ONE TOUCH OPERATION SET UP" settings, made using GUI. (P. 36)
TUNER:

This switches power to the TUNER ON, and starts reception of the last memorized station.

Also, if power to this unit is OFF, it is switched ON, and operation automatically switches to the selected function. When you press any of the ONE TOUCH OPERATION buttons, the GUI MODE becomes off.

#### (5) FUNC. (function) button

Press to select the receiver input.

VCR 1 VCR 2 VIDEO TV/SAT LD

CD TUNER PHONO TAPE 1

# **(6) TAPE 2 (TAPE 2 MONITOR) button**

Switches TAPE 2 MONITOR on/off.

#### 7 G.U.I. button

Switches GUI MODE on and off. When the GUI mode is ON, the Select/Adjust button  $(\Delta, \triangleright, \nabla, \triangleleft)$  lights.

# **® M.CHECK (Mode check) button**

Indicates whether the GUI MODE is on or off. When it is on,  $\triangle$ ,  $\triangleright$ ,  $\nabla$ ,  $\triangleleft$  light. When it is off, a ④ ONE TOUCH OPERATION button lights to indicate the current function

If you press the button again while it is lit, remote control functions change. When the remote control is in the GUI mode, the ③ Select/Adjust buttons ( $\triangle$ ,  $\triangleright$ ,  $\triangledown$ ,  $\triangleleft$ ) light.

# $\bigcirc$ Select/Adjust buttons ( $\triangle$ , $\triangleright$ , $\triangledown$ , $\triangleleft$ )

When the GUI mode is ON,  $\triangle$ , $\triangleright$ , $\nabla$ , and  $\triangleleft$  light.

When using the GUI function with the on-screen display, use for such operations as selection and adjustments (by moving the cursor).

When the GUI mode is OFF, use to operate other components.

#### 10 MUTE button

Used to temporarily mute the sound. When it's in the on position, the "MUTING" indicator lights. The volume is restored when pressed again.

## **OPERATING OTHER COMPONENTS**

# REMOTE CONTROLLING OF ANY OTHER OF YOUR AUDIO-VISUAL COMPONENTS VIA THIS UNIT REQUIRES:

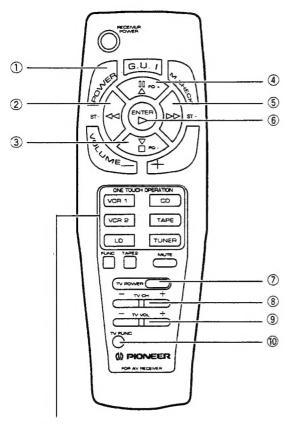
All components must be remote controllable (have a sensor window on the front panel) to receive a direct command from this unit, upon successful learning of those commands by this programmable unit,

#### When operating components other than the receiver:

- Press the ONE TOUCH OPERATION button for the component you want to operate.
- 2. Press the operation button.

#### NOTE

Components that could not originally be operated by remote control cannot be controlled by this unit's remote control.



ONE TOUCH OPERATION buttons switch between each of the functions.

#### TV operation

TV POWER button:

Switches the power of the TV ON/OFF.

- TV CH (channel) +, button:
   Switches TV channels in order.
- TV VOL (volume) + , button:
   Raises (+) and lowers (-) the volume.
- TV FUNC (function) button:
   Used to change the TV FUNCTION.
   TV FUNC button cannot be used with some PIONEER TVs.

## VCR 1/VCR 2 operation

① POWER button:

Switches VCR power ON/OFF.

② ◀◀ (REW) button:

Rewinds the tape and arrows picture search.

③ ■ (STOP) button:

Stops the tape transport.

4 II (PAUSE/STILL) button:

Sets pause and still picture.

⑤ ►► (FF) button:

Rapidly advances the tape and arrows picture search.

⑥ ► (PLAY) button:

Selects playback.

#### LD player operation

1) POWER button:

Switches LD player power ON/OFF.

Pressing quickly once takes you to the start of the chapter currently playing. Each time you press it, you move back to the start of the previous chapter. Continue pressing to rewind.

③ **■ (STOP)** button:

Playback is stopped when pressed once. With some LD players, pressing the button twice

With some LD players, pressing the button twice may open the disc tray.

4 II (PAUSE) button:

Video and audio are stopped and playback is paused.

⑤ ►► (SCAN/CHAPTER SEARCH) button:

Pressing quickly once takes you to the start of the next chapter. Each time you press it, you move ahead to the start of the next chapter. Continue pressing for fast forward.

**⑥** ► (PLAY) button:

Selects playback.

# CD player operation

1) POWER button:

Switches CD player power ON/OFF.

② ◄◄ (MANUAL/TRACK SEARCH) button:

Pressing quickly once takes you to the start of the track currently playing. Each time you press it, you move back to the start of the previous track. Continue pressing for reverse search.

Pressing the ◀◀ button while pressing the ■ button takes you to the previous disc. (With a file-type CD player)

③ **■** (STOP) button:

Stops playback.

4 II (PAUSE) button:

Pauses playback.

**⑤** ►► (MANUAL/TRACK SEARCH) button:

Pressing quickly once takes you to the start of the next track. Each time you press it, you move ahead to the start of the next track. Continue pressing for forward search. Pressing the button while pressing the button takes you to the next disc. (With a file-type CD player)

⑥ ► (PLAY) button:

Selects playback.

## **TAPE** operation

① POWER button:

Switches cassette deck power ON/OFF.

② ◄◄ (FF) button:

Rapidly advances the tape in the direction of the arrows.

**■** (STOP) button:

Stops the tape transport.

4 II (PAUSE/STILL) button:

Temporarily stops tape transport. Press again to resume tape transport.

►► (FF) button:

Rapidly advances the tape in the direction of the arrows.

► (PLAY) button:

Selects playback.

# **Tuner operation**

2 ST — (Station Down) button:

Used for recalling memorized stations.

FQ — (Frequency Down) button:

Shifts the frequency down.

④ FQ + (Frequency Up) button:

Shifts the frequency up.

ST + (Station Up) button: Used for recalling memorized stations.

6 Band button:

Switches the FM and AM bands in turn.

#### Auto tuning:

Press FQ + (up) or - (down) button until the frequency starts to change, then release it. The tuner will automatically search for a broadcasting station and stops when one is found, and the TUNED indicator lights up. To search for another station, press again.

#### Manual tuning:

Press FQ + (up) or - (down) button and release quickly. The tuning frequency will change by one step each time the button is pressed. Press as many times as necessary to tune in the desired station. The TUNED indicator lights up when the station is tuned in best.

· If you keep the FQ (up/down) button depressed after the frequency has began to change, the reception frequency changes continuously, and stops when the button is released.

When AUTO TUNING is in use, reception may not be possible over long distances or when signals are weak. At these times MANUAL TUNING is recommended.

# 13. SPECIFICATIONS (VSX-D704S)

Amplifier Section	FM Tuner Section
Continuous average power output of 165	Frequency Range 87.5 MHz to 108 MHz
	Usable Sensitivity Mono:11.2 dBf, IHF (1.0 $\mu$ V/75 $\Omega$ )
watts* per channel, min., at 8 ohms, from	50 dB Quieting Sensitivity Mono: 16.8 dBf
20 Hz to 20,000 Hz with no more than	Stereo: 38.6 dBf
0.05 %** total harmonic distortion	Signal-to-Noise Ratio Mono: 80 dB (at 65 dBf)
(front).	Stereo: 76 dB (at 85 dBf)  Distortion
(iiOiic).	Distortion Stereo: 0.3 % (1 kHz)
[Multi-voltage model]	Alternate Channel Selectivity 65 dB (400 kHz)
Continuous Power Output (DIN)	Stereo Separation
Front (1kHz, T.H.D. 1%, 8 Ω)180 W+ 180 W	Frequency Response
Continuous Power Output	75 $\Omega$ unbalanced
Front 130 W + 130 W (1kHz, 0.8%, 8 Ω)	
Center 130 W (1kHz, 0.8%, 8 Ω)	AM Tomas Castian
Rear 130W (1kHz, 0.8%, 8 Ω)	AM Tuner Section
Dynamic Power (2 Ω /4 Ω) 450 W/330 W	Frequency Range 531 kHz to 1,602 kHz (9 kHz step)
Input (Sensitivity/Impedance)	530 kHz to 1,700 kHz (10 kHz step)
PHONO MM 2.8 mV/47 kΩ	Sensitivity (IHF, Loop antenna)
CD, TAPE 1, TAPE 2, LD,	Selectivity
VCR 1,VCR 2, VIDEO, TV/SAT 200 mV/47 k $\Omega$	Signal-to-Noise Ratio
Phono Overload Level (T.H.D. 0.1%, 1 kHz)	Antenna Loop antenna
PHONO MM100 mV	B.4' 11
Frequency Response	Miscellaneous
PHONO MM 20 Hz to 20,000 Hz $\pm$ 0.3 dB	Power Requirements
CD, TAPE 1, TAPE 2, LD, VCR 1,	U.S. and Canadian models AC 120 V, 60 Hz
VCR 2, VIDEO, TV/SAT 5 Hz to 100,000 Hz +0 dB	Multi-voltage modelAC 110 V/120-127 V/220 V/240 V
Output (Level/Impedance)	(Switchable), 50/60 Hz
TAPE 1 REC, TAPE 2 REC 200 mV/2.2 k $\Omega$	Power Consumption
VCR 1 OUT,VCR 2 OUT 200 mV/2.2 kΩ	U.S. and Canadian models 375 W, 340 VA
Tone Control	Multi-voltage model
BASS ± 8 dB (150 Hz)	In Standby Condition
TREBLE ± 8 dB (10 kHz)	AC Outlets
SUPER BASS +8 dB (80 Hz)	U.S. and Canadian models
Signal-to-Noise Ratio (IHF, short circuited, A network)	SWITCHED X 2 TOTAL 100 W (0.8 A) MAX
PHONO MM	UNSWITCHED X 1 100 W (0.8 A) MAX
CD, TAPE 1, TAPE 2, LD,	Multi-voltage model
VCR 1,VCR 2, VIDEO, TV/SAT 97 dB	SWITCHED X 2 TOTAL 100 W MAX
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	UNSWITCHED X 1
PHONO MM	Dimensions
CD, TAPE 1, TAPE 2, LD,	$16-9/16$ (W) $\times$ 6-3/8 (H) $\times$ 16-5/16 (D) in
VCR 1,VCR 2, VIDEO, TV/SAT 80 dB	Weight (without package)
	U.S. and Canadian models
* Measured pursuant to the Federal Trade Commission's Trade	Multi-voltage model 12.8 kg (28 lb 4 oz)
Regulation rule on Power Output Claims for Amplifiers.	Furnished Parts
** Measured by Audio Spectrum Analyzer.	
VIDEO 6 .:	FM T-type Antenna
VIDEO Section	AM Loop Antenna
Input (Sensitivity/Impedance)	Dry Cell Batteries
VCR 1, VCR 2, LD, VIDEO 1 Vp-p/75 Ω	[size "AA" (IEC R6/UM-3)]
Output (Level/Impedance)	Remote Control Unit
VCR 1, VCR 2, MONITOR 1 Vp-p/75 Ω	Mini-Repeater
Frequency Response	Main-Repeater
VCR 1, VCR 2,	Operating Instructions
LD, VIDEO → MONITOR5 Hz to 10 MHz +0 dB	NOTE
Signal-to-Noise Ratio	NOTE:
Cross Talk55 dB	Specifications and the design are subject to possible modifications
	without notice, due to improvements.

FM Tuner Section
Frequency Range 87.5 MHz to 108 MHz
Usable Sensitivity Mono:11.2 dBf, IHF (1.0 $\mu$ V/75 $\Omega$ )
50 dB Quieting Sensitivity Mono: 16.8 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio Mono: 80 dB (at 65 dBf)
Stereo: 76 dB (at 85 dBf) Distortion
Alternate Channel Selectivity
Stereo Separation
Frequency Response
Antenna Input
75 Ω unbalanced
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ANA Towns O set
AM Tuner Section
Frequency Range 531 kHz to 1,602 kHz (9 kHz step)
530 kHz to 1,700 kHz (10 kHz step) Sensitivity (IHF, Loop antenna)
Selectivity (IIII , Loop antenna) 300 µV/m Selectivity 25 dB
Signal-to-Noise Ratio 50 dB
Antenna Loop antenna
Loop antenna
Miscellaneous
Power Requirements
U.S. and Canadian models AC 120 V, 60 Hz
Multi-voltage model AC 110 V/120-127 V/220 V/240 V
(Switchable), 50/60 Hz
Power Consumption
U.S. and Canadian models
Multi-voltage model
AC Outlets
U.S. and Canadian models
SWITCHED X 2TOTAL 100 W (0.8 A) MAX
UNSWITCHED X 1 100 W (0.8 A) MAX
Multi-voltage model
SWITCHED X 2 TOTAL 100 W MAX
UNSWITCHED X 1100 W MAX
Dimensions420 (W) $\times$ 162 (H) $\times$ 414(D) mm
16-9/16 (W) $\times$ 6-3/8 (H) $\times$ 16-5/16 (D) in
Weight (without package)
U.S. and Canadian models 12.6 kg (27 lb 12 oz)
Multi-voltage model 12.8 kg (28 lb 4 oz)
Furnished Parts
FM T-type Antenna 1
AM Loop Antenna
Dry Cell Batteries
[size "AA" (IEC R6/UM-3)]
Remote Control Unit
Mini-Repeater 1
Main-Repeater 1
Operating Instructions
NOTE: